Mining Journa RAILWAY AND COMMERCIAL GAZETT

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

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No. 2074.-Vol. XLV.

LONDON, SATURDAY, MAY 22, 1875.

BUPPLEMENT. | PRICE SIXPENCE. PER ANNUM, BY POST, £1 40.

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References given and required when necessary.

A Stock and Share List forwarded to bong fide Investors free on application.
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W T D has SPECIAL	BUSINESS in the underme	ntioned:-
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40 Bampfylde.	5 East Lovell, £8%.	70 Port Phillip, 22s.
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10 Bilson and Crump.	150 Gold (Wales), 9s.	20 Richmond, £9 3s. 9d.
100 Chontales, 12s. 6d.	50 Gold Run, 18s.	10 Sweetland Ck., £31/4.
50 Cathedral.	100 Javali, 13s. 6d.	50 St. Patrick.
25 Cedar Creek, 26s. 6d.	25 Ladywell, £3 18s. 9d.	20 South Condurrow.
20 Chicago (Silver).	40 Last Chance, 28s. 9d.	100 Tecoma.
2 Carn Brea, £3934.	75 Malabar, 15s. 6d.	2 Tincroft, £2014.
10 Cape Copper, £351/4.	100 Malpaso, 17s. 6d.	10 Tankerville, £125%.
50 Chapel House Colliery	25 Marke Valley, 24s.	5 Van, £24¼.
3 Dolcoath, £41%.	50 New Consols, 35s.	50 Van Consols, £21/2.
40 Don Pedro, 32s.	20 New Sharlstone.	25 Wheal Jane.
30 Devon Consols, £2 11 6	150 Old Treburgett, 6s. 6d.	15 Wh. Grenville, £43%.
50 Eberhardt, £6 3s. 9d.	20 Pennerley, £2 8s. 9d.	25 W. Godolphin, 16s. 6d
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20 Sc. Roman Grav., 17s.
60 St. Patrick, 22s. 6d.
20 Sc. Roman Grav., 17s.
61 Sampfylde, 26s. 3d.
62 Marke Valley, 23s.
63 Tecoma, £%.
64 To New Rosaric, 6s. 9d.
65 Port Phillip, 20s. 9d.
66 To The Gold, 8s. 6d. £4%. 20 Chr pel House, 244.

50 Don Pedro, 30s.

55 Devon Consols, 23%.

15 Eberhardt, 264.

25 Emma, 21 13s. 9d.

30 Flagstaff, 22 5s. 3d.

60 Frontino, 12s.

50 Glaisdale, 20s. 50 Port Phillip, 20s. 96 40 Prince Patrick, £3; 40 Prince of Wales, 7s. 80 Penstruthal, 11s. 20 Penserley, £2½. 50 Rica, 5s. 6d. 50 Rookhope, 6s. 10 Richmond, £9.

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6PECIAL BUSINESS in Patent Ligno Mineral Paving Company.

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aggregate value of ends £17 per fathom; a property of rare merit; in one of the fishest districts in England.
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30 W. Tankerville, 21s.
30 West Chiverton.
30 W. Tankerville, 21s.
30 W. Tankerville

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The following are the latest prices at which business could be done. Where the difference between the buying and selling price is wide transactions may be effected at an intermediate color.

	Buye	rs.	Sellers.			1	Buyer	s. 8	ellers.
Bampfylde	£ 1	***	£ 11/2	New	Rosario		6s. 9d		7s. 9d
Birdseye Creek	2		21/8	Parv	Mounta	in	12s.		14s.
Bog	10s.		128.	Penn	erley		£ 21	6	£ 24
Carn Brea	375	4	40	Port	Phillip		1		11
Chapel House Colliery	41	6	436	Princ	e of Wale		6s.		78.
Chontales	88.		10s.	Richr	nond		9		93/
look's Kitchen	6	***		Rome	n Gravel		123	6	13
Devon Great Consols	23	6	25%	Rosey	vall Hill	**********	58.		78.
Don Pedro	13	6	11/4	St. P	trick		1		13
Eberhardt	6		634		Aurora				
East Caradon	11	1	114	Bouth	Condurr	ow	23	4	31/
East Lovell	81	6	9	So. R	oman Gra	vels	15a.	1	7a. 6d
East Pool	129	4	1234	Bweet	land Cree	ak	3		33/
East Van	13	6	136		erville				
Flagstaff	2		21/4	Tiper	oft		18	***	20
awton	12s.		148.		yd				
Fold	78.60		10s.	Van .			23		
Hingston Down	13	6	114	Van (Consols		2		21/
Javali	12a.6d		13s. 6d.	West	Chiverton		143	6	153
Ladywell	35	6	376	West	Tankervi	ile	1		13
Llangwat	1		11/	Whea	l Crebor		23	4	31/
Marke Valley	13	4	114	Wh.	Kitty (8t	Agnes).	31	ź	4
New Quebrada	4		4	Whee	l Peevor		3		31

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INSPECTIONS IN AMERICA.

MR. C. J. HARVEY, M.E., leaves London for an INSPECTION TOUR in AMERICA, on SATURDAY, the 29th iustant. Communications respecting engagements for Inspections to be addressed to—

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O Chicago.

O Chapel House, £4 3s 9

50 Devon Get, Ont., £2½.

Estant Tana, £2.

O Eberhardt, £6½.

East Grenville, 8s.

55 Flagstaff, 47s. 6d.

O Frontho, 11s. 9d.

56 Great W. Van, 9s. 6d.

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Bank

40 New Consols, 33s. 9d. 45

40 Old Treburgett, 5s. 3d. 20

60 Old Treburgett, 5s. 3d. 20

60 Penneruthal, 11s. 50

60 Penneruthal, 11s. 50

60 Penneruthal, 11s. 60

60 Penneruthal, 11s. 60

60 Piynlimmon, 7s. 6d. 60

60 Piynlimmon, 7s. 6d. 60

60 Piynlimmon, 7s. 6d. 60

60 Pixnys Mountain, 12s 9 10

60 Russia Copper. 10

60 Rus

St. John dei Rey, £385
Tyllwyd.
30 Thorp's Gawber, £113/
80 Tecoms, 16s. 3d.
15 Tankerville, £123/.
10 Tincroft, £193/.
10 Tincroft, £194/.
10 Tincroft, £194/.
10 Wan Consols, 46s.
45 Welsh Freehold, £23/.
20 West Mostyn.
50 West Goginan, 13s.
25 Westerra Andes.
10 West Chiverton.
56 W. Esgari Lle, 18e. 9d.
West Miwr, off. wtd.
30 Wheal Peevor.
10 Wheal Kitty, £33/4
40 W Tankerville, £24 1s.

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COL. J. P. BATHURST. The Report for 1874, copies of which with the statements of account can be obtained on application, shows that a sum equal to 40 per cent. of the premium neome was added to the funds, while the general income was increased.

The directors continue to make advances to assurers in the office on liberal terms.

H. D. DAVENPORT, Secretary.

GEOLOGY OF THE ORES OF IRON.

As one of the evening sittings held during the recent annual meeting of the Iron and Steel Institute Prof. Warington W. Smyth, M.A., F.R.S. delivered a valuable and interesting lecture on "The Ores of Iron considered in their Geological Relations" in which he remarked that when we observe the various results of analysis, or even carefully look into the actual samples of ore, there are often anomalies noticeable where not expected, often two or more kinds mingled together, and giving intermediate results; but he holds it not the less desirable that, as far as possible, we should fix the characters of certain species, hold fast to them through their sundry minor variations, and learn how to follow the clue when these substances are found to pass distinctly from one specific condition to another. He would, therefore, pass under review these important ores, to impress their individuality on the memory, and would then consider some of the changes which nature in many cases has wrought in them, and which sometimes may even need to be noticed in the smelting process, but which very generally will have to engage the attention of the explorer and the miner.

First in order, if we omit the elementary metal which as such is a rare and often disputed constituent of the earth's crust, we recognise magnetite or magnetic iron ore, by its octahedral crystallisation, often taking partially or entirely the form of the rhombic dodecahedron, but even when almost compact betraying its crystallisation, often taking partially or entirely the form of the rhombic dodecahedron, but even when almost compact betraying its crystallisation, often taking partially or entirely the form of the rhombic dodecahedron but he brightness of the triangular faces; further, by its black colour, and black streak, and its magnetic property often showing polarity. This mineral, a proto-sesquioxide of iron with 72-41 per cent. when pure is the fine rich ore which Dannemora in Sweden, Arendal in Norway, and several other mines in Scandinavia, have worked wi though by no means uniformly rich are sometimes wondrously massive. These have been opened out in hundreds of mines, and are doubtless destined to play a great part in the iron trade of the United States. In Great Britain a few localities only can be quoted as offering magnetite in workable quantities. A small vein near Penryn, in Corawall, and another or two near Roche, and, perhaps, that of Ballycoop near Arklew cought to be available in frequently Penryn, in Cornwall, and another or two near Roche, and, perhaps, that of Ballycoog, near Arklow, ought to be available in favourable times; while a singular series of several successive beds exist at Hey Tor, near Bovey, in Devon, which has only now in these last few weeks been placed in a working position. These remarkable crystalline deposits show on the line of the cross-cut a thickness worthy of attention, and a mode of occurrence bearing strong analogy to some of the Scandinavian mines. The minutely crystalline magnetite, which occurs in the north flanks of Aran Mowddy and of Caler Idris, in North Wales, has never yet been opened out with perseverence, and the objection to some of it that it is pyritous is to be met by more careful selection.

The second species is the well-known hematite termed specular ore, or oligist, when crystallised, red ore or kidney ore when in a

The second species is the well-known hematite termed specular ore, or oligist, when crystallised, red ore or kidney ore when in a compact or fibrous condition; it is sesquioxide of iron with 70 per cent. of iron in its state of highest purity, too well known to need description, and an important ingredient in the trade of most of the iron-making countries, is distinguishable in most cases instantly, if not by its external aspect, by the blood-red streak which is sometimes difficult to produce on surfaces as hard and as smooth as policibled steal will appear agent though the colour of the outside he times difficult to produce on surfaces as hard and as smooth as polished steel, will appear even though the colour of the outside be purple or black. The value of this ore, so little recognised 30 years ago, is now too well known for me to enlarge upon. Its occurrence in Furness and near Whitehaven has been well described in the pages of of the Journal, and a very curious parallel to the northern mines may be found on a smaller scale in the numerous deposits, partly of red and partly of brown hematite, which have for years been worked in the Mendip Hills. There could not be better examples than at Roanhead and Hodbarrow mines of the entire irregularity of form assumed by these vast masses, of their great progularity of form assumed by these vast masses, of their great productive capability, and of the well-merited success due to the unsparing use of the boring rods. In our western districts, as near St Austell and at Exmoor, hematite occurs in veins, not generally intersect the clay-slates, an analogy with the rich district of Siegen in Prussia, also situated on rocks of the Devonian system. There are cases in which these ores are certainly of a bedded character, as in Canada and at La Marquette in Michigan, where very extensive There workings have proved certain strata, mostly made up of this ore, to be from 50 to near 100 ft. in thickness. Probably those of Bilboa may be thus stratified. The Americans seem mostly to ascribe an intrusive origin to their great masses of red ore in Missouri, the well-kno wn Pilot Knob, and Iron Mountain; and the magnificent displays of ore in Elba, some seven in number, occurring in a straight line, ire regarded by numerous authors as of volcanic origin. In fact, when stearyers have been familiar, with the maryellous proobservers have been familiar with the marvellous production of crystallised specular iron by sublimation from the neighbouring volcanic vents, it is easy to lean to the belief of its being connected with volcanic influences in Elba.

cent. of water. One of the varieties, Lespidverokite, is translucent and red by transmitted light; another, "needle iron ore," brilliant, but only slightly translucent; a third, wood iron, opaque and fibrous; a fourth, brown or black ore, opaque, and with no regular structure; but, from the splendid prismatic crystals of Lostwithiel downwards, all these varieties have a brown streak. The most notable examples of these ores in our own country are at the Restormel Mine in Cornwall, on Exmoor, on the Brendon Hill, in the Mendip, near Bristol, and in the Forest of Dean; but there are very numerous places, at home as well as abroad, where, amidst the ores called ous places, at nome as well as abroad, where, amidst the ores called in the large scale brown iron, or brown hematite, a portion will prove to be this monohydrate, whilst other parts of the same deposit may, very likely, belong to the next following species. The name of stilposiderite has been given to a mineral with a lustrous pitchy fracture, but it is somewhat uncertain as to whether it be-

name of stilposiderite has been given to a mineral with a lustrous pitchy fracture, but it is somewhat uncertain as to whether it belongs to the above-named division.

A large proportion of the brown iron ore, or that which gives a brown streak, belongs to the limonite series (which has about 60 per cent. of iron with 14½ per cent. of water), the iron being contained in a peroxide, but both the external contour and the structure are very variable. The fact of the brown ores being often met with in the shallower parts of repositories, which may contain other substances in depth, is an explanation of their having been largely explored and worked from a very early period. Thus, as a stratified rock limonite it may sometimes in great thickness be followed downward a long way without change, as in the mines near Elbingerode, in the Hartz, or it may change downward into the impure carbonate, as in the Lias and Oolitic strata. When in veins it will commonly be found to constitute a sort of gossan or "iron hat," fated to yield to other minerals in depth. In the Alston Moor district, hitherto but little worked, it is observable that the rider of the lead lodes often shows itself at surface in a great mass of brown ores; and similarly, in the central part of Cornwall, between Par Station and Ladock, a number of lodes, apparently continuous in their course, with veins bearing elsewhere copper and tin ores, carry as they approach, and in some cases enter the granite rock, brown ores in considerable abundance. Xanthosiderite or yellow iron ore, a peroxide with nearly 18½ per cent. of water is of a yellowish colour, sometimes in silky fibres and needles, in other cases more like an ochre; but it is cited definitely from only a few localities; and from the character of the occurrence, so commonly in successive incrustation, it is difficult with many of the substances called "morass," or "bog iron ore," &c., to feel assured where the line should be drawn.

Chalybite, siderite, white iron ore, carbonate, spathic, spathose, or

successive incrustation, it is difficult with many of the substances called "morass," or "bog iron ore," &c., to feel assured where the line should be drawn.

Chalybite, siderite, white iron ore, carbonate, spathic, spathose, or sparry iron, is a carbonate of iron, and a little more than 62 per cent. of protoxide would give about 48½ per cent. of metallic iron; but this is an ore which almost invariably contains, in lieu of some of the iron, a notable amount of manganese, calcium, or magnesium. The rhombohedral crystallisation and the crystalline structure are sometimes minutely but often largely lamellar, both outer and inner planes often curvilinear, with its lightshades of colour so readily heightened by exposure, these are tolerably distinct external characters. It is only, however, within the last 25 years that enquiries after steel irons, and more recently after the means of making spiegeleisen, have attracted attention to it in this country, and have led to extended observations. The late Mr. Charles Attwood was the dirst to utilise the considerable quantities of this mineral present as "rider" in the ironstones of many of the lead mines in Weardale and other parts of the North. In the granite of Foxdale, in the Isle of Man, in the great cross-course lead lode of Frank Mills, in Devon, and in many of the Cornish mines, the admixture of chalybite with other ores is often on a large scale, but its value is commonly marred by difficulties of carriage. More important is the range of veins occupying a length of some 30 miles in Somerset and North Devon, from Ebbw Vale Mine, of Raleigh's Cross westward, to near Ilfracombe. Nor could he omit to mention the fine lode of Perran, sometimes 100 ft. across, if taken horizontally from wall to wall, where workings, commenced in brown ore, have opened downwards, at depths of from 30 to 120 feet, into large masses of chalybite. The varieties of ironstone in which the carbonate is mingled with a very variable amount of clay, of lime carbonate is mingled with a very varia as the celebrated Cleveland ore, date their employment from a very few years ago; others, like the dark pisolitic masses of the paleeozoic schists of Anglesey and North Wales, have hitherto met with but little attention. Prof. Smyth concluded his lecture, which was listened to with evident appreciation throughout by pointing out the relationship between these several oxides by reference to typical specimens, taken from localities where the development can be specimens taken from localities where the development can be studied on a large scale.

BLASTING EXPERIMENTS AT CAULDON LOW.

The members of the North Staffordshire Institute of Mining and The members of the North Staffordshire Institute of Mining and Mechanical Engineers went, by invitation, to the large limestone quarries belonging to the North Staffordshire Railway Company, at Cauldon Low, to witness some blasting experiments. After a short stoppage at Froghall, they proceeded to the foot of the incline, up which a tramway is laid in three stages for conveying the limestone from the quarries to the railway and the canal. Seats were placed in wagons, in which the members of the Institute were drawn to the In the first stage the incline is steepest, the gradient being The curious ores, he continued, to which the names of Bauxite and Wöehnite have been given, in which alumina takes the place of much of the peroxide of iron, deserve special mention, from the fact of the Irish variety being so largely employed in the smelting of hematites. Mr. Snelus has analysed some of these ores in practical use, which, with a percentage of 58, 34:37, and 28:93 of peroxide length. The ascent is not unpleasant, and when the summit of the of iron, contain respectively 17:89, 39:20, and 45:75 of alumina. Of Turgite, an oxide of iron with 5½ per cent. of water, we know but little, yet it doubtless occurs largely among the brown ores which come to the furnace. Gölbite is a peroxide of iron with 10 per between them, but a tunnel is cut from one to the other. The expectation of the other. come to the furnace. Göthite is a peroxide of iron with 10 per between them, but a tunnel is cut from one to the other. The ex-

periments were commenced in the second quarry, and were to a great periments were commenced in the second quarry, and were to a great extent intended to demonstrate the relative advantages of powder and dynamite. They were conducted by Mr. Frazer, the manager of the quarries. After an experiment with 2 lbs. 2 ozs. of dynamita, conditions, the charge in one being 1 lb. 9 ozs. of dynamita, conditions, the charge in one being 1 lb. 9 ozs. of dynamita, and in Although the weight of the explosives was the same, it is only right to say that the dynamite is double the price of the powder, and that both appeared to do the work equally well. A charge of 2 lbs. 5 ozs. of dynamite was next exploded with terrific effect. The holes fired, which means that shots were fired in loose blocks of stora, measuring 70 or 80 cubic feet each, with 1½ oz. of dynamite, 1 oz. of extra strong, and 1¼ oz. of guncotton, and in each case the hugestone was smashed.

extra strong, and 13 oz. of guncotton, and in each case the hugesome was smashed.

After some minor experiments the party proceeded to the other quarry, where a shot had been prepared by Mr. Frazer on a scale of often attempted, although on many occasions 1 ton weight of powder has been exploded there. A level had been driven in the rock 41 ft. straight, when it turned off at an angle, and was carried 15 ft. further; at the end of this was a chamber, in which was placed 13 to of Curtis and Harvey's ordinary blasting powder. The amount of work expected to be done by this was to displace 18,392 tons of rock. The face was 121 ft. high, and it was expected that a width of 38 ft, and a length of 60 ft. would be dislodged. After the preparation had been completed the visitors, who by this time were very memorous, were advised to retire for safety. They waited at a respectable distance during the 20 minutes occupied in burning the fus, when the first indication to many that it had done its work was given by a complete shaking of the earth on which they stood. In an instant there was a report (not so loud as might have been expected), which was followed by the toppling over of the face of the rock, large fragments being blown to a considerable distance. The result of the shot was such as to exceed Mr. Frazer's anticipation, and at least 20,000 tons of rock was thrown down.

Mr. Wilkinson, one of the vice-presidents of the Institute, delivend a short address in the quarry, in which he said the experiments of the members to Mr. Horn, the company's engineer, and Mr. Frazer's for the manner in which the arrangements had been carried out.

PROMOTION OF SCIENTIFIC INDUSTRY.

The Exhibition of Appliances for the Economy of Labour, organised by the Society for the Promotion of Scientific Industry, was opened at Manchester on Friday last, the ceremony being performed (in the absence of the President, the Earl of Derby) by Mr. Hugh Mason, who, in his opening address, remarked that the Coneid most earnestly hoped that the present enterprise would be fully a successful as the one held in Peel Park. The financial results of the Peel Park Exhibition had been very great, and the society had, therefore, been emboldened to launch the present greater enterprise. He would leave Dr. Anderson to speak of the great instruction which might be derived from the Exhibition, not only by the artizan classes, but by those who employed the artizan classes; and in the face of foreign competition in every part of the globe, we needed to place ourselves abreast as regarded technical instruction and the practical management of machinery with every other nation in the world. We had capital and skilled labour in abundance, and we would have only ourselves to blame if we should be left behind in the industrial race. The society was very much stronger in point of numbers than it had been a year ago, and he had no doubt that one of the results of the present Exhibition would be to considerably increase the number of its fellows, and make the Society for the Promotion of Scientific Industry a great advantage to Lancashire and the neigh-barying ecounties. The Exhibition of Appliances for the Economy of Labour, organised

it had been a year ago, and he had no doubt that one of the result of the present Exhibition would be to considerably increase the number of its fellows, and make the Society for the Promotion of Scientific Industry a great advantage to Lancashire and the neighbouring counties.

In a highly interesting paper on "Tools," by Dr. Anderson, C.R., F.R.S.E., read immediately after the address, it was remarked that the correct forms to be given to materials in the construction of tools or machinery depend entirely upon natural principles. Natural form consists in giving to each part the exact proportion that will enable it to fulfil its assigned duty with the smallest expenditure of material, and in placing each portion of the materials under the most favorable conditions of position that the circumstances will admit of. Such natural form in not only the most economical, but, strange to say, it is always correct in every espect, and is invariably beautiful and lovely in its outlines. Why it should be admitted to the such and the such an

brain, and stop of their own accord. Other tools perform the most difficult mathematical calculations, and are capable of printing the result, so that no errormay occur in the copying.

It is interesting, Dr. Anderson continued, to consider how the Manchester district has become so celebrated for its tools and machinery. Doubtless there were many causes of a material nature which contributed to the result, but the true cause of Louosahire superiority lies much deeper. As a youth in Manchester, fresh from Scotland, now 35 years of age, I was then strongly impressed with a certain marked mental peculiarity, and after spending the interval in a public department, where there was ample opportunity of studying all phases of the working mind of this country, it appears to me that the secret of Lancashire greatness in her own tool speciality is due to the deeply industive turn of of mind which there prevails, and that the inductive habit of mind is the central pivot around which all the other causes that have combined to make Lancashire what it is do revolve. No doubt some of the peculiarities are partly traceable to the line of the Teutonlo branch through which they came, their early and inordinate liking for useful work, in combination with a natural inventive faculty, which has now continued for centuries, and grown deep into the nature of the population. Few have had more opportunity of observing the character of workmen than myself, and long since I came to the conclusion that the best practical workmen on the earth surface are the men of Lancashire. They and their fathers for more than four generations, have been under a course of training for this pre-minisce. They are not only hard workers, but they have lugrained into their nature an apitude for the performance of every sort of work requiring skill or precisions. They are not only hard workers, but they have lugrained into their nature are apitude for the performance of every sort of work requiring skill or precisions. They are not only hard workers, but they

22, 1875 i were to a great tages of powder the manager of zs. of dynamita, d under similar tynamite and d under similar lynamite, and in strong powder, e, it is only right to wder, and that to wder, and that to The holes in shots were the blocks of stone, ynamite, 1 or of e the huge stone

itute, delivered xperiments af-the thanks of nd Mr. Frazer, carried out,

pour, organised FIC INDUSTRY, ony being per-Derby) by Mr. nat the Council ald be fully as results of the ety had, there-nterprise. He ruction which rtizan classes in the face of eded to place the practical in the world, re would have the industrial numbers than of the results increase the Promotion of ad the neigh-

DERSON, C.E., marked that etion of tools es. Natural Expenditure of the control of the co

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chester dis-there were t the true exter, fresh h a certain partment, king mind in her own e prevails, ch all the olve. No e Teutonic for useful continued and long arth's sur-lour gene-

of the cotton manufacture among the people of Lancashire—a race who like work for the sake of working—and to the precision required in the making of cotton for the sake of working—and to the precision required in the making of cotton for the sake of working—and to the precision required in the making of cotton for the sake of working—and to the precision required in the making of cotton gracified in for nearly 100 years, has brought them up to the present excellence, carried on for nearly 100 years, has brought them up to the present excellence, carried on for nearly 100 years, has brought them up to the present excellence, carried on for nearly 100 years, has brought them up to the present excellence. The title boys seem to have an inborn fitness for learning the work which their fitness and grandfathers have been engaged upon through successive generations. It is that the present of the same that the same through the inductive minds of Arkwright, Hargraeves, Crompton, sults that came through the inductive and inductive, from principles down to facts, and from facts up to principles. Watt's mind was full of Black's speculations on and their successors. Watt arrived at the separate condenser by the reverse process that Arkwright arrived at this great invention. Both are typical of their respective modes of thought, deductive and inductive, from principles down to facts, and from facts up to principles. Watt's mind was full of Black's speculations on and from facts up to principles. Watt's mind was full of Black's speculations of upon him like an inspiration; even then it was vague and abstract, but, by continuous thinking, it took a concrete form that would afrord the practical condenser. Free now the Sootch mind is deductive, and Sootch deduction has to be brayed for supposition for their contrivance. At the same time Scotch heduction has paid back to England, with compound interest, all that she has received; many of the Newt

mind for a number of successive generators, denotes the first or machine tools, and the nursery ground to grow the men who became the instrument for their development.

The building is exceedingly well adapted to the purpose, being commodious, light, and well ventilated, and is well filled with no less than 1134 exhibits, shown by 234 contributors. The exhibits are separated into two divisions, each being sub-divided into several classes. The first division consists of engineers' and mechanics' tools and appliances for working metals, wood, and stone. In this department there is a large number of entries, including lathes, planing, and drilling machines, all of them possessing some especial advantage by which manual labour can be husbanded. Class 2 of the same division contains boiler makers' tools, and punching, rivetting, drilling, plate-planing, and welding machinery. Class 3 is devoted to neal and rivet making machines; class 4 to steam-hammers and machines applicable to forges and smith-work; class 5 to lifting appliances; class 6 to machines and hand tools used by carpenters; class 7 to stone-dressing and boring-machines; class 8 to apparatus for the manufacture of gas and sanitary appliances other than for domestic use; and class 9 to a miscellaneous collection of articles. The exhibits in the second division are constructed with the special object of encouraging the development and production of appliances having for their aim the reduction of household labour, the saving of fuel, the improved preparation of food, and the increased healthiness of the home.

The stand of Sir Joseph Whitworth and Co. contains samples of

The exhibits in the second division are constructed with the special object of encouraging the development and production of appliances having for their aim the reduction of household labour, the saving of fuel, the improved preparation of food, and the increased healthiness of the home.

The stand of Sir Joseph Whitworth and Co. contains samples of gun projectiles used with his 9-pounder breech-loader, and a large number of photographs of tools and guns; a steam-lathe for the use of amateurs, a measuring machine, standard gauges, screwing tackle, and specimens of fluid compressed steel. A most interesting exhibit at this stand is a large photograph of the north and south erection shop of the Messrs. Whitworth's establishment. It shows all the machinery and the men at work. Messrs. Elkington and Co. have an interesting exhibition; the machinery, which is frequently in motion, showing the means by which their electro-plating is now effected. When Messrs. Elkington and Co. first brought out their patent batteries were used for electro-plating, but now the work is done by a magnetic machine, the advantage of which is that it saves a great deal of labour and keeps the batteries in order. The machine attracted the attention of the Prince of Wales on the occasion of his recent visit to Birmingham. The process of electro-plating and gilding will be exhibited to visitors to the exhibition. Messrs. Tangvé Brothers, Cornwall Works, Birmingham, have a large collection of machinery, including horizontal engines and vertical boilers complete, on one stand. They have also a number of screw-jacks, hydraulic-jacks, and all kin is of lifting jacks; boiler drivers, cribbing winches, and a miscellaneous collection of fittings. Messrs. T. Bellhouse and Co., of Manchester, exhibit a set of 14-inch power pumps for working hydraulic presses. The peculiarity of these pumps is that they are fitted with a letting-off motion when the pressure rises to 3 tons. The locomotive steam-crane shown outside the building by Messrs. Appleby Brothe

THE MINERAL RESOURCES OF THE SOUTH-WEST OF IRELAND-No. V.

[FROM OUR SPECIAL CORRESPONDENT.]

SCHULL DISTRICT.—The lodes of Coosheen Mine pass into Ardentenant, which adjoins the east boundary, and is the property of Lord Bandon. The shallow adit in Coosheen has been driven east on Thomas's lode to within 20 fms. of the boundary, and the same level has been driven on one of the north lodes close up to the boundary. A Thomas's lode to within 20 fms, of the boundary, and the same level has been driven on one of the north lodes close up to the boundary. A cross-cut adit level from the south was began many years ago, and driven north, with the view of intersecting all the lodes of Coosheen, but it stopped short of the object when a few fathoms more driving would have reached the principal lodes. From the close proximity of this mine to Coosheen, the lodes being identical, and occurring in the same rock formation, there is every prospect of this property becoming as productive and valuable as Coosheen. Passing east from Ardentenant we come to Dreenatra, the property of Dr. Hicks, J.P., &c. About 30 years ago Capt. W. Thomas discovered a lode in this property, and from an opening he made in a valley near the boundary of Kilbronogue he raised 60 tons of copper ore, which were quarried open from surface, and without dressing sold in Swansea for over 3l. per ton. Arrangements were about to be made for effectually working the Dreenatra Mine, but the then proprietors demanded such unreasonable terms and conditions for a lease that the parties would not touch it, and nothing has been done there since. The property, however, having been purchased by Dr. Hicks, there is no doubt but that gentleman would meet bona fide speculators on fair and liberal terms. Immediately to the east of Dreenatra is Kilbronogue, the property also of Lord Bandon. A new line of road has been made from Rossbrin Cross through Kilbronogue and Dreenatra, which joins the mail road near Schull, and greatly facilitates communication and operations in both properties. There is a large cross-course areas and south and south through the valley that gentleman would meet both through the valley that the properties. Dreenatra, which joins the mail road near Schull, and greatly ischitates communication and operations in both properties. There is a large cross-course running nearly north and south through the valley near the boundary line, and if the lodes in Kilbronogue are well explored near this great cross-course there can scarcely be a doubt but great and valuable deposits of copper ore will be the result. About a half-mile east of this valley trial pits were sunk, and several lodes

discovered in Kilbronogue, which present every indication of masses of copper ore below. With the exception of the trial pits, there is a grand run of virgin mineral ground. North of and parallel with the range of mines just described is Mount Gabriel Mine, and Mount Gabriel being 1300 ft. above the sea level, this mine may be worked to a great extent by adit levels driven from the north side into the mountain, and thus intersect the several lodes, and also drain the mine of water. An attempt was made some years ago by an eminent mining firm in London to work this mine, or rather one of the lodes, but as the lode underlied at a great angle the shaft passed through it, and into the slate rock below it, while the lode—which contains splendid stones of grey ore, carbonate of copper, &c., and about 2 ft. wide—is still intact. When such glaring blunders are made at home, it is no wonder that millions are lost in foreign schemes.

MINING ON THE PACIFIC COAST.

[FROM OUR CORRESPONDENT.]

The production of bullion for the first quarter of the present year has far exceeded that of previous years, and mining interests generally in California and Nevada look more prosperous than they ever have done. The high price of quicksilver (3:00 per h) was for a long time a drawback to mining operations, but a reduction of that price to 75 c. has proved beneficial, and talling mills and other works, demanding its use, which for a time were shut down, have been enabled to resume business. The great honanza which lies in the Consolidated Virginia and California Mines is pouring its treasures into our mick, and helping to meet the drain on our resources of some \$15,000,000, which since the commencement of the year has found its way to New York. Up to the present moment we have no adverse reports with respect to the character of the Consolidated Virginia Mine, which, unquestionably, is surpassingly rich, and pays and some other of the Consolidated. The value of the shares of this the extreme tightness in the money market, but this depression is only of a temporary nature, and will right itself as soon as the drain on bullion to the East eases. There never was a time when mining operations and works of immense importance were carried on with greater vigour than at present. The most expensive and powerful machinery is made and sent to the various mining districts, and the recent large additions to our population afford ample and comparatively cheap labour. Considerable as the products of our mines are, no doubt we possess numbers of mines equally rich, which by the interest of the contrast of th has far exceeded that of previous years, and mining interests generally in California and Nevada look more prosperous than they ever have done. The high price of quicksilver (\$1.60 per lb.) was for a long time a drawback to mining operations, but a reduction of that

access to a market. It is expected that the road will pay a gross income of at least \$400,000 a -year after the first twelve months, and in 1876 the company expect a net earning of \$200,000 as a profit on the first division of the road, which will have cost \$1,700,000. Care has been taken to construct the road in a most substantial manner, and to provide against any contingency of weather which might in future affect its stability.

The mines in the region of country between the San Berdino range of mountains and the Colorado river are reported to be excessively rich. Panamint, on the northern border of the county, is already established as a mining centre, and extending as it does to Inyo, it is believed to equal in richness and dimensions the famous Comstock, in Nevada. The satisfactory results attending the working of the new Gold Mountain mill, at Bear Valley, has attracted to that district men of capital and enterprise. Capital is also pouring into San Bernardino, where, in another year, a number of mills will be built, which hereafter will give employment to large bodies of men. An opening for a profitable investment of capital exists in the development of coal mines in Utah, where fuel for smelting has to be obtained from St. Louis, or beyond, at the enormous cost of \$35 per ton, delivered at Salt Lake city. This makes the cost of smelting amount to about \$25 per ton, and as there is good coal to be found in the country capital is urgently required to produce it. An equally good investment might be made in the construction of concentration works, situated at intermediate points between the mines and the great number of smelters in Salt Lake Valley. The concentrating works, situated at intermediate points between the mines and the great number of smelters in Salt Lake Valley. The concentrating works, on a large scale, which were erected near Salt Lake city, two years ago. vould have been a great success, but by an unaccount-

able blunder the location chosen was so ill-advised that they proved

able blunder the location chosen was so ill-advised that they proved a complete failure.

It may be well in this connection to note that the reports of the "Mining Bureau" on the value of mines in this country have been shown to be unreliable, and the party styling himself president of that organisation has entirely forfeited the confidence and respect of the people of this State. This was made apparent on his bringing an action of libel against the San Francisco Chronicle, which action ended disastrously to himself and to the character of the Mining Bureau which he professed to represent.

— San Francisco, April 22.

THE FUTURE OF THE EMMA.

That there are vicissitules in the working life of mines has been often too conclusively proved by experience, but there has also been abundance of evidence given that the miner is frequently very largely rewarded for struggling through a period of depression alike costly and disheartening. In an interesting communication to the "Engineering and Mining Journal" of New York, Mr. J. H. Morrow Fvery fully discusses the prospects of the Emma Silver Mine of Utah by giving a succinet account of the ore formations of the district; that the present moment considerable interest attaches to all such information. In an article, published a year ago, Mr. Morton showed that the granite mountain to the east of Emma was undoubtedly an intrusive one, and subsequent observations have not only considered the opinion he then expressed, but have also fully satisfied him of the correctness of an opinion he then held—that he numersons gives of porphyry which traverse the solimentary rocks of the district are all connected with the mass of this mountain, and are, and first seen at the base of the mountain putting out into the sedimentary rocks as apparently true granites, and gradually changing in appearance, until the true porphyritic structure and appearance entirely prevail. They continue, and finally give out in the limestone or quartzites, and in no instance has he been able to trace any connection between the porphyries and the western granite mountains. Another phase is that the ore deposits all seem to be of more recent origin than the porphyry dykes, and to be in aimset all cases where the deposits are important, in more of less intimate and the western granite mountains. Another phase is that the ore deposits was a secondary of the opphyry has been removed by pseudomorphic action. It would seem as if the formation of the ore deposits was a secondary of field of the prophyritic cruption. The strike of the vein is a highly probable conjecture, as it has been traced to near the mouth of the Vallej tunnel, and has has also found in the ores of the mine slight traces of matter similar to that of which the dyke is composed. Passing to the north of the ore deposits and the prophyritic cruption of the view of the wine and th largely rewarded for struggling through a period of depression alike costly and disheartening. In an interesting communication to the "Engineering and Mining Journal" of New York, Mr. J. H. MORTON very fully discusses the prospects of the Emma Silver Mine of Utah

That the entire chain of mines belong to the vein appears to him very probable, as in all cases, even in the western end of the Emma, there is clear evidence of a difference between the foot and hanging walls, forming what may be termed a strata vein, or a vein lying between the beds of limestone. The hanging wall is undoubtedly of Devonian age, though highly metamorphosed on the eastern end; while the foot wall may probably be termed Silurian, though he is inclined to refer it also to the Devonian era. Mr. Morton has shown that the corrections of the line of foul is continued throughout the inclined to refer it also to the Devonian era. Mr. Morton has shown that the connection of the line of fault is continued throughout the entire length of the vein so far as known; that the fault has been passed in the South Star Mine, and so far as developed, the ore continues downwards; that the vein is probably a contact one between different beds of limestone, and we might even extend these points of resemblance by showing a similarity in the ores of the different mines; but the evidence given may be supposed to convey all that is required to give strong grounds for believing that the Emma Mine is not exhausted, and that there is good reason for a further extension of explorations downwards. sion of explorations downwards.

Holloway's Pills—Counsel and theer.—Many impurities enter the human body during the summer from the decomposition of animal and vegetable matter, which after a time taints the air and renders the water noxious. The good quality displayed by these excellent pills of searching out and expelling all perniculus particles from the system constitute them the best medicine for averting indigestions, billous attacks, diarrhea, and English cholers. For all the various affections of the alimentary canal, constantly recurring in a variable climate, Holloway's pills are the best, cheapest, and safest remedies, since they can never act wrongly or be taken without benefit if their accompanying directions receive only moderate attention, and the diet be restricted to plain, wholesome, and digestible food.

Meetings of Public Companies.

ELIAS MARTYN AND SONS.

The fourth ordinary general meeting of shareholders was held yesterday at the offices of Messrs. W. Sharp and Co., Cornhill,
Mr. T. LARK in the chair.
The CHAIRMAN moved the adoption of the report and statement

The CHAIRMAN moved the adoption of the report and statement of accounts made up to December 31, showing a profit amounting to 1211L·12s. 1d., which the directors proposed to appropriate to the payment of a dividend of 5 per cent. The deliveries from the works during the year had been 10,730 tons, and the sales 9008 tons; the balance having gone to increase the stocks at the depôts. The increase over 1873 had not been as great as was expected, owing to the dulness in trade, both in the Potteries and amongst the papermakers. High freights, particularly towards the close of the year, and the comparative dearness of coal, continue to affect the profits. The depôt at Brussels had been completed, and as the works had been rendered capable of a large production of clay, no further imbeen rendered capable of a large production of clay, no further imbeen rendered capable of a large production of clay, no further important outlay for plant is anticipated, unless it should be considered portant outlay for plant is anticipated, unless it should be considered advisable to enlarge the production of the better qualities, for which an increasing demand is springing up.

The resolution for the adoption of the report and accounts was put and carried, and the usual formal business concluded the meeting.

SOUTH WHEAL CROFTY MINING COMPANY.

The quarterly meeting of shareholders was held at the mine or Wednesday,—Mr. E. H. Rodd in the chair.

The quarterly meeting of shareholders was held at the mine on Wednesday,—Mr. E. H. Rodd in the chair.

The usual preliminaries having been disposed of, the accounts for 12 weeks—which showed a debit balance of 1051/.—were submitted, and the report of the agents was read, and stated that the engine-shaft was sunk 3/4 fathoms under the 195; the lode was improving in size and appearance, and was worth for the length of the shaft (12ft.) 18/. per fathom. The 195 contained throughout rich stones of tin, especially at the north part, and they think in about 3 fathoms further driving, or less, this lode will unite with Pryce's lode, to which Beckford's shaft was now sunk; and looking at the size and general appearance of bott lodes, they think it highly probable that when the junction is reached a great improvement will take place. The 160 north lote has been opened about 5 fathoms in length. The lode in the eastern end had been rather disordered of late, but was ag in improving, and was producing good stones of tin. It was worth 10/. per fathom. They had commenced to drive east from the 180 from Bickford's shaft, and as soon as the cross-course was reached they would drive north at this levei to intersect the north lode also. Since the price of arsenic had so much increased, they had put some men to work at the 50 fm. level at Pryce's lode, where it was worth, principally for that mineral, 12/. per fathom. Mr. Baller suggested that they should make a call to clear off the whole of their liabilities, and charge up the costs as close as possible.

Capt. A. James said he had observed that Capt. Teague deducted 14/ per cent. off the merchants' bills, for the principal materials used in the mine some 24/ per cent., and for fuses 5 per cent. Now, he did not see why Capt. Teague alone should have that privilege and advantage, or why the same should not be done at South Crofty and other mines. They were bound in justice to other adventurers to see that they were as well treated as in other mines.

Capt. Joshan Flodanassald i

merohants.
BALLEY urged that the question raised was why other agents should pay than Captain Teague does. There arose the question, were the materials as He was not justifying Captain Teague doing it, but he thought the matter to be ventilated.
To be ventilated.
To be ventilated.
To be a said there were several gentlemen in that room who had large ints with Captain Teague, and they allowed 1½ per cent., and why not allow South Croftly?

necounts with Captain Teague, and they allowed 1½ per cent., and why not allow it at 8 outh Crofty?

Mr. Tracoastis said it might depend upon the quantity. The greater the quantity the greater the inducement to allow percentage.

Mr. Carfers: These deductions have been going on for a very long time.

Captain James said he would guarantee that at Tincroft and Carn Brea the prices were as low as at any mines in the county.

After some further remarks the matter was left in the hands of the purser, it being understood that he would see that they did not pay higher prices than Carn Brea.

LLANGHALADE LEAD MINING COMPANY.

The statutory general meeting of shareholders in this company was held at the offices, 86, London Wall, on Thursday,

Mr. E. Hilton in the chair.

Before the commencement of the meeting Mr. J. TAYLOR, the managing director, explained to the shareholders the position of the

mine by means of sections and plans.

The Secretary having read the notice convening the meeting,
The Chairman said they were met in obedience to Act of Parliament, which required that a meeting should be held within four
months after registration. He was glad to say that they were going
on as well as could be expected for the length of time they had
been at work. All the difficulties had now been cleared out of the

menth, which required that a meeting should be held within four months after registration. He was glad to say that they were going on as well as could be expected for the length of time they had been at work. All the difficulties had now been cleared out of the way, and Viere was nothing but a straightforward course before them. They were proceeding economically and effectively. They had determined to put on air apparatus in the lower level to enable the men to get more quickly forward, as it seemed to be the great thing before them. He then read the directors' report, as follows:

Since the company has had possession of the property your directors have concentrated their attention on a few of the most promising points, in order to prove them and open out new ground, and they are pleased to say that the indications, so far as the work has been prosecuted, give unmistakeable evidence of the great mountain, and, as will be seen from the agent's report, both ends are yielding lead, and appear to be improving. Previously to this company taking the mine a wince had been sunk below No. 4 level for about 8 ft., on the south lode, which at this point is worth? tons of lead per fathon, but as the levels below are not sufficiently advanced to drain this part of the mine, the water accumulated so fast as the lower of the sund the sund the sund and the very high probability of success attending their prosecution. In No. 4 level, on the north part of the south lode, a rise has been put under a piece of ground in No. 3 level, which yielded some hundreds of tons of ore. It is very probable that some good toping will be obtained here. Steps have been taken to prove the lode in the deep afti by driving a cross cut towards the transparence of the contractive of the sund to the contractive the lovel considerable quantities of ore have been taken away. The prevent of the lode, which is expended to any or driven or prove the lode in the deep afti by driving a cross cut towards that your property contains very large deposits of ore,

Major John Ross said he thought it most important that the deep adit should be pushed forward. — Mr. Taylor replied that they could only work for eight hours a day in consequence of the air being so bad. They had just arranged, as the Chairman had stated, to have an air-machine to draw out the foul air and ventilate the level.

Major Ross said he did not know if all the shareholders there had been to the mine, but he desired to say what very great satisfaction he had in inspecting the premises of the mine, and in observing the thoroughly permanent and substantial nature of the buildings and all concerned about it, the excellent and good machinery which is in it. He mentioned it in case any gentlemen present might be new shareholders, and not have been to the mine. Before he went further into it he went all the way from Aberdeen to see it himself, and he found that in every way very substantial good work had been done, likely, as far as he could understand, to turn out a good concern. It recommended itself to him in this way-people were to be seen undertaking to open out mines where there were only indications that ore might be found, whereas in this case they had a property that was yielding, when he saw it, at the rate of from 15 to 20 tons per month; and they, as a new company, had the benefit of all the machinery and everything that was left over by the late company, and if anyone would take the trouble to go to Llamrhaidr and see for himself, he felt sure they would be perfectly satisfied with regard to the property they possessed in the Llamrhaider Mine.

The CHAIRMAN, in reply to Mr. T. W. Masterman, said that the capital at the command of the company was, in the opinion of the board, sufficient to put the mine in a good state of development.

Mr. TAYLOR, replying to Lieut Col. H. B. Scott, said the lease had about 15 years to run, being originally for 21 years; but that he had made an application to Earl Powis for a new lease, the old one to be cancelled. He did not consider that there would be the sligh

Major Ross said there were two main features that were very encouraging—one was that the drainage could be made so effective, by reason of the position of the mine; the second was that they required no steam-power to drive the crusher He supported Mr. Nasmith as to the disposal of the shares still unsold.

A cordial vote of thanks to the Chairman terminated the proceedings.

WEST FRANCES.—At the meeting on Thursday (Mr. W. Pike in the chair) the accounts showed a loss on the three months' working of 2761. 16s. 5d., and a debit balance of 7261. 10s. 4d. The Chairman stated that there were some xtrue expenses included in the present accounts which would explain some portion of the loss on the three months' working. The agents reported upon the various oints of operation. Thanks were voted to Mr. Fortesoue for consenting to a continuation of the reduced rate of dues (1 30th) for another 12 months, in consideration of the fact that the mine was not paying.

COOK'S KITCHEN.—At the meeting, on Thursday (Mr. W. Pike in the chair), the accounts showed a loss on the three month's working of 747. 16s.8d., and a debit balance of 1890. Ls. 1d. The Chairman pointed out that since the last meeting the deficit had been reduced by nearly 50%, and that the reduction in the price of tin has made a difference of about 200% in their adoulations. Last time it was considered necessary to make a call of 10s. per share, but on the present occasion he thought a 5s. call would answer the purpose. Capt. Josiah Thomas read the agent's report, and added that the agents had been doing all they could to open up Dunkin's lode as rapidly as possible. As the report stated, they had, since the last meeting, succeeded in driving and sinking upwards of 50 fms., which was a very large quantity to open up, and he did not see any reason to doubt that they should open up a large quantity of moderately productive ground on that lode. It was not a large nor a very rich lode, but it was fair ground for stoping. It was only about 10 months ago that they cut it, and since that time they had holed the shaft from the 160 to the 190. They had had some little change in the shaft. There were some fine stones/of tin and little branches from the south, looking as if it had something to do with Dunkin's lode, at any rate they were getting near its influence. They had speak a good deal of money in opening ground, especially in Dunkin's lode. The report and accounts were passed, and it having been unanimously decided to make a 5s. call, the meeting separated. COOK'S KITCHEN .- At the meeting, on Thursday (Mr. W. Pike in

NEW QUEBRADA MINING COMPANY.

NEW QUEBRADA MINING COMPANY.

The report to be submitted at the forthcoming meeting states that the issue of 30,000%. Sper cent. debentures at par, sanctioned by the last general meeting, has been taken up by the shareholders to the extent of 20,550%, and as arrangements had been made with a house of high standing by which the remaining 9450% is at the disposal of the directors when required, it is not proposed to make any formal offer of the remaining debentures, but the directors will, so long as any of them remain unissued, be prepared to give preference to any shareholders who may apply for them. An agreement, which the directors consider a fair and advantageous one, has been completed with the Bolivar Railway Company, for a tentitive alteration of the terminus from Brava Island to Tucacas. The railway works have for some time been progressing with great activity. The last accounts report the weather and an abundance of labour for the requirements of the contractors. The directors are given to understand that the only really heavy portion of the work, with the exception of the upper three miles, is in an advanced stage of progress, and they have reason to believe that the earthworks are by this time virtually completed to a point nearly 35 miles from the coast. Work at the mines has not been so rapid as could have been desired, but the directors have increased the number of skilled European miners, and have every reason to believe that far greater progress will now be made in training native labour, of which there is an improving supply. The last advices are that the opening of the mine has so far advanced as to admit of the extraction of a considerable supply of ore. The directors have the assurance of the superintendent that the arrangements now made for the prosecution of the mining works, will, by the end of the present year, provide adaily supply of ore fully commensurate with the requirements now made for the prosecution of the mining works, will, by the end of the present year, provide adaily supply

[For remainder of Meetings see to-day's Supplement.]

Original Correspondence.

NEW QUEBRADA COMPANY.

SIR,—The vague information which has been so scantily doled on to the shareholders by the officers of this company as to the progress of the works during the last six months, has made the report of the directors to be eagerly looked for. It is now in our hands, and whether the information it contains will be such as to satisfy shareholders, and allow them to rest and be thankful for another 12 worths will depend upon the propulse if discovering of each reader. months, will depend upon the peculiar idiosyncrasy of each reader as to the bounding limit which governs his measure of contentment Some are satisfied with small mercies, others require more tangible

Certainly the report is a most compact one, and, excepting to the Quebrada Company in its corporate capacity, it is not likely to prove inconvenient hereafter to anyone who has been connected with its composition. It says the board has completed successfully the loan which it required. It has advantageously given up the right to which it required. It has advantageously given up the right to have a good port and harbour to its property. The earthworks on the railway have reached nearly 35 miles. The mines are being opened up, and by the end of the year the directors are informed they will produce ore to supply the railway on terms of the contract; and finally, although they have already a consulting engineer, a consulting mineralogist, a secretary, and a doputy-secretary, they have a projected Mr. Hemming their managing director.

have appointed Mr. Hemming their managing director.

This is absolutely the whole report. Well, if the board will only spend the loan judiciously and economically, I am sure shareholders will rejoice equally with them at the successful way in which they will rejoice equally with them at the successful way in which they have got the money, if they can show that having a port and harbour are only very slight advantages to an estate like ours, and could be abandoned without any inconvenience or loss to the company, no one will find fault. If they can induce the Bolivar Railway Company to expedite the completion of the railway, and make greater progress than a mile each month, as they have hitherto done, I am sure the shareholders of both companies will be satisfied, and will expect to see ore in England in less than two years, ad will expect to see ore in England in less than two years, will not be the case if no more progress is made than which heretofore

If the superintendent at the mines will show the directors by comething more definite than his assurance, communicated through

another officer, his hopes for having a supply of 2000 tons a month within six months everybody would rest content.

As to the last statement of the board, I am sure every shareholder As to the last statement or the board, a suredly of late will look upon this as the most important one. Assuredly of late will look upon this as the most important one. Assuredly of late re have had too many irresponsible officials. If we had had fewer think we should have had more certain information as to the progress of the works. Everyone is bound to acknowledge the extrapany know that he possesses more knowledge and information as ordinary energy of Mr. Hemining, and all connected with the com-pany know that he possesses more knowledge and information as to the history, the constitution, and the objects of the company than any other man in existence. His knowledge of Venezuela. of our estate, our mines, and all connected therewith is not surpassed by any other person, hence I think this is undoubtedly the most important paragraph of the board's report, and the best act they have accomplished. If his colleagues do not hamper him with absurd restrictions, and limit his energy and ability, if he is not tram-

melled with the fear of treading on the toes of other officials, if they will let him devote himself wholly to his duties for the perturbation the conditions of the perturbation to the condition of the perturbation to the condition of the perturbation of the perturb they will let him devote himself wholly to his duties for the next 12 months, and above all if, by proper remuneration, they make it worth his while to concentrate his energy, his ability, and his mind to the company's affairs. I have little doubt in a very short time a much more satisfactory state of matters will exist both with the board itself and with the shareholders generally, who will then know not only how matters are really progressing, but they will be conscious they are directed and seen to by an officer who never spares either himself or others in carrying out those measures which will best secure the success of the company.

Citu. Mau 21.

(For remainder of Original Correspondence see this day's Supplement.)

The Clogau Company (Gold), Dolgelly, North Wales.—The directors of this company visited the mines on Monday last, and received two bars of gold, weighing together 60 ozs. 3 dwts. the result of the clean up from the last three weeks' working of the small trial pans. The quantity of quartz crushed since the last clean up, on the 24th ult., is as follows:—Week ending May 1, 237 lbs. first quality ore; ditto May 8, 510 lbs. third quality; ditto 15th, 758 lbs. second quality: the total being 13 cwts. 1 qr. 21 lbs. of quartz, yielding 60 ozs. 3 dwts. of gold retorted and melted. The third quality quartz was crushed for the purpose of testing its richness. The result was quite satisfactory, showing an average of 10 ozs. of gold per ton of quartz. The mine is looking remarkably well, and large returns are looked forward to with confidence. Part of the machinery has already arrived at the mills, and its erea. Part of the machinery has already arrived at the mills, and its erection is being pushed forward with all possible speed.

MINING NOTABILIA

CHAPEL HOUSE COLLIERY.—We understand that the directors' report and accounts will be issued in the early part of the coming week. Since the commencement of the company the gross profits to March 31 (the day of making up the books), amounted to 32,317. the amount of coal dealt with having been over 129,000 tons. After making all charges against profit and loss, such as didend, items written off for wear and tear of plant, office expenses, interest, invexpenses, and printing, there remains an undivided balance of over 11,000. The output at present is about 6500 tons per morth, and the total profits for a like period about 1500f. to 1600f. The new works are going forward satisfactorily, and bricks are being made at the rate of 69,000 per week; when everything is completed this will, it is believed, be one of the finest colleries in the district.

COURT GRANGE.—The latest news from the mine captain, under date May 20, shows an important improvement in the lode in the new Breginian

date May 20, shows an important improvement in the lode in the new Breginian 12 fm. level.

At WHEAL GRENVILLE they are still cutting through the lode at the 130 from North shaft. The lede is now worth 20% per fathom for tin, and is also producing some rich yellow copper ore.

OLD TINCROFT.—In the 30 west the lode is worth 10% per fm. The rise in the back of the 20 is worth 6% per fathom, and in the 10 west 7% per fathom. It will be seen that profitable ground is being opened up, and it remains only for the company to put up proper stamping power to make considerable and satisfactory returns, and it is probable that the time is not far distant when the commany may be able to divide profits even with the present depressed price of tin.

WHEAL GILBERT.—A discovery of tin has been made in Wheal Gilbert, in Lelant district, which promises to be of magnitude, and if these discoveries continue to be made in new mines is must tell in many ways against the deep and expensive ones. To prove that the spirit of enterprise has not altogether died out the application for tin setts continue, and at present prices mines ought opay very well. It is to be hoped, however, that tin will, notwithstanding all gloomy very well. It is to be hoped, however, that thin will, notwithstanding all gloomy very well. At present, however, a decided preference for young and shallow mines is in the assendant. The discovery of tin at Wheal Gilbert may lead to very important results as far as the district is concerned.

EAST POOL.—This mine is now the most profitable in the county of Cornwall, and continues to present evidence of long continuance. The 180 east is being carried 9 ft. to 10 ft. wide in a part of the lode, and seeing that this lode, in which a plat has been cut at the bottom of Wheal Agar shaft 12 ft. wide, with out any wall, is conclusive there is more tin ground above and below this than will be beaten away during the present generation. The 150 east, near Agar boundary, is looking much richer than it has for a long time. The sout

ECHOES FROM THE MINING MARKET.

The tin share market still remains in a very inactive condition; but a certain steadiness has been apparent in the metal throughout the week. Although there is so much dulness in Cornish shares, the but a certain steadiness has been apparent in the metal throughout the week. Although there is so much dulness in Cornish shares, the fluctuations have been unimportant, which has been probably duemore to want of actual business than to anything else. A dividend of 5s, per share has been announced from Tincroft, which may have some influence on the market. The principal business of the week has been confined to collery and lead shares. In the former, Chapel House continues to attract constituation attention from investors. Extreme heaviness has been noticeable in Cardiff and Swansea shares, owing to the issue of some very damaging circulars on the part of the chairman of the company and one of the vendors. Like all rival disputants who commit their wrongs to print, the most complete divergence of opinion is apparent in the rival documents, and we should fancy the shareholders must by this time be completely bewildered. The contretemps is much to be regretted. It has had the effect of reducing the shares to just 50 per cent. discount. With 7t. paid they are selling at 3t. 10s., so the 1t. call lately made has already been completely sunk in the price; in fact, with this amount paid, the shares are worth rather less than they were with 6t. paid. Enquiries have existed for United Bitaminous shares, which are quoted about 5s. It is said the Welg Colliery is looking better; but we have not heard whether the water difficulty has been surmounted yet. In lead, West Chiverton has been the mine of the week. These shares continue to advance, and are now quoted 13t. 14s., and close strong, buyers. The latest advices are of a mot satisfactory character, both as to the present superior the mine and forthcoming sales of produce. Plynlimmon has also had a good market, and we understand matters are looking encouraging at the mine. The shares are still at a purely nominal price. A better business has lately been done in Assheton shares and in Pennerley, which is to give a dividend shortly.

The copper market has not shown any ch

appears likely to the third and the present, when every alteration for the better is of inconcersame value.

The following are the principal gleanings of the week from the country. There has been no dividend at Carn Brea. Although a profit of 1200, was made on the quarter, the thirteenth month had to be charged up, and this turned the apparent profit into a loss of 757l. The balance has been reduced to 4305l. The mine appears to be looking well, although the accident that occurred some time since to the shaft in the eastern part has not yet been overcome. It has prevented drawing stuff from a very promising lode, and it is expected that quite three months more must elapse before the shaft will again be in thorough working order. The lode in the engine shaft at Cathedral, sinking below the 30, is worth 28l, per fathom; an end is valued at 28l, and a winze at 20l, per fathom. Creuver and Wheal Abraham has not been able to surmount its difficulties, and will go into the Stannaries Court, after all. We hear, however, a scheme is affoat to re-construct. An enemons sum of money has been expended here. A call of 10s, per share is expected at the next meeting of Cook's Kitchen. The points now being operated upon in New Consols are said to be looking well, and to be 'producing fair quantities of mineral.

mons sum of money has been expended here. A call of 10s, per share is expensed at the next meeting of Cook's Kitchen. The points now being operated upon in New Consols are said to be looking well, and to be 'producing fair quantities of mineral.

The improvement at New Hendra continues, and some pretty grey and black copper ore is still being sent up. The men are making good progress in driving the adit; the ground is more favourable, and the mine throughout is looking well. Beven pitches have been set in New Rosewarne to 22 men, at an average tribute of 13s. 2d. in 1/. At North Pool the lode in the 40 east is now 4½ ft. wide, and is producing some rich stones of yellow copper ore. North Treskerby has at least holed Scorrier Consols, and is about to send away some parcels of it and copper. Two ends in Old Trieuroft Consols are worth 14/. per fathom, and a ried 4/. per fathom. In Old Treburgett there are two ends, worth 24/., and a ries 4/. per fathom. A sale of lead has been made here, realising 1241. At Pedn-an dres the water is down to the 140. Nine ends are valued at 96/. per fathom, and a winze 7/. Some pitches have been set at an average tribute of 10s. 3d. in 1/. Some stones of tin have been seen in Trevarrack. At West Godolphin the seven ends valued are worth 70/. per fathom. There is a prospect of West Scton resuming dividends before very long. The lord has met the adventurers in such a liberal spirit that the mine will now be worked vigorously. Full liberty has been given in the interval of coals—an important concession. The stopes in West Folgus are yielding well; two produce 6½ tons of copper ore per fathom, whilst a rise is yielding well; two produce 6½ tons of copper ore per fathom, whilst a rise is yielding well; two produce 6½ tons of copper ore per fathom, whilst a rise is yielding well; two produce 6½ tons of copper ore per fathom, whilst a rise is yielding well; two produce 6½ tons of copper ore per fathom, whilst a rise is yielding well; two produce 6½ tons of copper ore per fathom. The lost

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METALLURGY: THE ART OF EXTRACTING METALS FROM THEIR ORES.

THE MINING JOURNAL

THE MI

Epps's Cocoa—Grateful and Comforting,—"By a thorough knowledge of the natural laws which govern the operations of digestion and nutrition, and by a cureful application of the fine properties of well-selected cocoa, Mr. Epps has provided our breakfast tables with a delicately flavoured beverage which may save us many heavy doctors' bills. It is by the judicious use of such articles of diet that a constitution may be gradually built up notification enough to resist every tendency to discuse. Hundreds of subthe maludies are floating around us really to attack wherever there is a weak point. We may escape many a stall-shaft by keeping ourselves well fortified with pure blood and a properly nourished frame,"—Civil Service Gazette.

C A P T . P H I L I P H A W K E ,

GREENSIDE COTTAGE,

BY WIGTON C UMBERLAND,

Begs respectfully to offer his services to INSPECT and REPORT upon MINES in

ENGLAND, IRELAND, SCOTLAND, and WALES. Twenty-six years' experience in the Management of Mines, including five years in Caldbeck Fells Consolidated. Terms and references may be had on application.

C APTAIN ABSALOM FRANCIS, MINING AGENT, ENGINEER, AND SURVEYOR. GOGINAN, ABERYSTWITH,

		LEA	D O	RE	18.	
Date.	Mines.	Tons.	Price	per	ton.	Purchasers.
May 13-	-Nantiago	20	£14	13	6	Burry Port Company.
18-	-Foxdale	100	25	6	0	Nevill, Druce, and Co.
	-Powell Consoli					South Wales Company.
_	-South Darren	15	20	5	6	Sheldon, Bush, and Co.
	-Great Laxey		24	5	6	Burry Port Company.
	-Dyliffe					A. Eyton.
	-Roman Gravels			6	0	Walker, Perker, and Co.
-		50				Nevill, Druce, and Co.
_		25				ditto
-		30				Burry Port Company.
_	-Bwadrain Cons					Nevill, Druce, and Co.

BLACK TIN. Date. Mines. Tons c. q. lb. Price per ton. Ameant. Purchasers. May 19—Wheal Coates ... 2 13 0 1 ... £52 15 0 ... £ 139 16 2—

COPPER ORES,
Sampled April 28, and sold at Swansea, May 18.

Mines. Tons	. P	roduce.	P	rice.		Mines. Tons. Produce. Price.
Cape Ore 77		30 4	24	8	6	Var Ore 61 161/2 £12 10 6
ditto 46		30	24	12	6	Laque lo \ 53 20 16 2 0
ditto 45		30	24	13	0	Abarca 5 52 20 16 2 0
ditto 17		261/4	21	7	0	Fursdon Ore. 35 121/2 9 16 6
ditto 2		27	21	18	0	ditto 44 614 4 17 0
						ditto 15 21/2 1 11 0
ditto 65						Bampfylde 39 6 4 11 0
ditto 48		231/2	18	19	0	ditto 10 2634 21 0 4
ditto 43					6	ditto 1 61/2 5 9 6
ditto 43					0	Australian 20 1914 15 11 0
Berehaven 100					6	
ditto 78					6	
ditto 98		101/	8	2	6	ditto 1 2834 21 5 6
ditto 59		85/6	6	10	0	Copper Ore 5 147 11 2 6
ditto 59		856	6	12	6	ditto 2 261/8 19 8 0
Var Ore 62	*****	161/2	12	10	0	ditto 2 3314 26 4 6
			TO'	TAI	P	RODUCF.
0	450	610	500	10.	42	1 Dampfulde One 50 0 909 11 1

Cape Ore 452	210,000 12	o Danipiy	ide ore.	OU seres de		2 4.4
Berehaven 394	2,734 17	6 Austral	ian Ore	30	48	8 0
Var Ore 123	1,537 10	0 Telhade	ella Ore	11	13	3 15
Laque lo Abarca, 105	1,690 10	0 Copper	Ore	9	14	5 17
Fursdon Ore 94	580 10	6				
COMPANIES BY	WHOM T			URCHASI	SD.	
Names.			Tons.		ount.	
Copper Miners' Con	pany		143	£ 2,066	14	3
P. Grenfell and Son	8		. 9954	1,422	17	8
Nevill, Druce, and (244	3,148	11 (В
Vivian and Sons					2	0
Williams, Foster, at					17	6

Williams, Foster, and Co. 143 1,131 17 6
Mason and Elkington 84 2,061 7 3
Charles Lambert. 216 3,840 14 0
Sweetland, Tuttle, and Co. 207 3,771 1 3

21 cwts. Produce. Price. Per unit. Standard. Whole sale ... 1263 ... 17 13-16 ... £14 7 2 16s. 1d.... £102 8 10

Registration of New Companies.

The following joint-stock companies have been duly registered:—
DUDLEY COLLIERY COMPANY (Limited).—Capital 250,000*l.*, in 500*l.* shares. To carry on mining operations in Worcestershire, according to the terms of an agreement made between Richard Mason, of Dudley, coal master, of the one part, and John Collinge, colliery proprietor, T. Edmonds, colliery proprietor, Robert Handsley, and J.Waddington, colliery proprietors, all of Burnley, of the other 1: The subscribers (who take one share each) are—T. F. Artindale, Greer Hill, Burnley, solicitor; J. Collinge, Hartingham House, near Burnley, colliery proprietor; T. Edmondson, Fern Hill, Burnley, colliery proprietor; R. Handley, Reidley Lodge, near Burnley, gentleman; J. Waddington, Burnley, mining engineer; F. J. Grant, Burnley, gentleman; and B. Edmondson, Lower Wood House, Robert Handsley, T. Edmondson, and John Waddington, the qualification being three shares. The following joint-stock companies have been duly registered:fication being three shares.

THE GROOME COMPANY (Limited).—Capital 42,000L, in 40,000

11. preference shares, and 2000 11. founders' shares. To carry on mining operations, &c., in the Groome mining district, Lincoln county, Nevada. The founders' shares are to be issued to the followcounty, Nevada. The founders' shares are to be issued to the following gentlemen, who, in consideration of their having found 1000% for preliminary expenses in sinking shafts, &c., are to receive the founders' shares in return:—Messrs. J. N. Brown, C. F. Evelyn, J. Gaspard Fanshawe, F. R. M. Gasset, E. Homan, S. B. R. Johnson, Richard Rothwell, W. C. Sargeaunt, and James Bell. The parties to the agreement are—T. W. Taylor, of 79, King William-street, E.C., as agent for the property, and J. N. Brown and others, the founders. The subscribers (who take one share each) are—F. Bardo, Knight's Hill, Lower Norwood, stationer; G. Knelling, G. Edith-terrace, Upton, secretary; Thomas Rowe, Stamford-road, Fulham, traveller; E. S. Thompson, Eltham-road, Kensington, gentleman; A. C. Pridham, Grove Villa, South Hackney, fancy stationer; and E. Woodhead, Wakefield, gentleman. head, Wakefield, gentleman.

head, Wakefield, gentleman.

LONDON AND PROVINCIAL CO-OPERATIVE BREWERY COMPANY (Limited).—Capital 50,000L, in 5L shares. To brew beer, &c., and supply the same to members. The subscribers (who take one share each) are—J. S. Ashton, 7, Essex-terrace; H. W. Sleigh, Weston-super-Mare; H. H. Browne, 14, Henrietta-street, Covent-garden; C. Sleigh, Ripon House, Russell-square; F. Chapman, 11, Clement's-lane; Wm. Webb, 10½, Ironmonger-lane; and H. M. Dagnell, 48, Threadneedle-street.

BRUNSWICK ROCK ASPHALTE PAYING COMPANY (Limited)

Threadneedle-street.

BRUNSWICK ROCK ASPHALTE PAVING COMPANY (Limited).—
Capital 10,000l., in 10l. shares. To deal in rock and asphalt, to be
taken from the Vorwhole Asphalt Works, Brunswick.

THAMES WHARF COMPANY (Limited).—Capital 25,000l., in 10l.
shares. To acquire the estate and interest of W. D. Barnett in St.
Saviour's Wharf, Mill-street, Bermondsey. The subscribers (who
take one share each) are—W. Shaw, M.P., Beaumont, Cork; Sir
Peter Tait, Southwark-street; W. D. Barnett, South Saa House,
Threadneedle-street; J. C. Douell, 160, Gresham House; Alex. Green,
152. Upper Thames-street; R. Straughan, 66, Cannon-street; and F. 152, Upper Thames-street; R. Straughan, 66, Cannon-street; and F.

To acquire a coton-spinner's business at Astley Mill, Lancashire.

General Spanish Amd Spanish - American Agency (Limited).—Capital 50,000/., in 5/. shares.

General Spanish And Spanish - American Agency (Limited).—Capital 50,000/., in 1/. shares.

To establish commercial

mited).—Capital 50,000%, in 17. shares. To establish commercial agencies in Spain and Spanish America.
COMMERCIAL BANK OF MANCHESTER (Limited).—Capital 500,000%, in 107. shares. To carry on the general business of a banking company at Manchester. The subscribers (who take one share each) are—Robert Milner, 45, Nelson-street, Manchester; D. Hill, Grimstone House, Ashton-upon-Mersey; J. Speakman, 239, Waterlooroad, Manchester; T. Foster, 161, Upper Brook-street, Chorlton; W. J. Hemming, 12, Rusholme-road, Manchester; Robert Bickerdike, 4, Dalton-street, Lancaster; T. M. Bednal, Ivy Bank, Ashton-upon-Mersey.

dike, 4, Dalton-street, Lancuster, ...
upon-Mersey.
MIDDLESBOROUGH FREEHOLD LAND COMPANY (Limited),—CaMIDDLESBOROUGH FRE MIDDLESBOROUGH FREEHOLD LAND COMPANY (Limited).—Capital 40,0004, in 101. shares. To carry on the general business of a land society. The subscribers (who take one share each) are—Thos. Bargate, Oakfield Villas, near Ormesby; R. W. Bolsoner, 66, Highstreet, Stockton-on-Tees; W. H. Burnett, Middlesborough; T. Teesdale, Middlesborough; R. Wilson, Darlington; and J. Lloyd, Middlesborough; R. Wilson, Darlington; and Middlesborough; and Middlesborough; R. Wilson, Darlington; and Middlesborough; a

dale, Middlesborough; R. Wilson, Darlington; and S. Lioyd, Middlesborough.

Fairholme and Company (Limited).—Capital 50,000L, in 10L shares. To acquire the business of George Fairholme, of Nottingham, carriage builder. &c., which has been recently transferred to William Burgess, Robert Mellors, and W. H. Burgess. The subscribers (who take 25 shares each) are—W. Burgess, Sneiton; W. H. Burgess, 38, London-road, Nottingham; E. Gripper, Mansfield-road, Nottingham; J. Hind, Nottingham; W. H. Lee, 3, Russell-place, Nottingham; T. Leman, 18, Peel-street, Nottingham; and R. M. Arnold, Plains, Notts.

GODALMING GAS AND COKE COMPANY (Limited).—Constituted by deed of co-partnership in 1836, is now incorporated under the Companies Act of 1862 as a limited company.

HOLLINWOOD ESTATE COMPANY (Limited).—Capital 20,000L, in 5L shares. To acquire property at Hollinwood, Lancashire, for building purposes, &c.

LIVERPOOL PROPERTY COMPANY (Limited).—Capital 20,000l., in 10l. shares. To acquire and manage property in Liverpool

STEAM-ENGINES.—Mr. II. HUGHES, of Leicester, mechanical engineer, has patented some improvements in portable and other steam-engines and in boilers for the same. In this invention two steam cylinders opposite to one an other are botted to brackets on a horizontal boiler between the saddle plate of the fire box and the smoke box. The platons are acted upon by the steam on one side only, and steam is admitted to them alternately. The crank shaft is placed between the cylinders atright angles to their axes. Both the connecting rods act upon one crank pin, and each is jointed to its piston in a direct manner by a cup and ball or other suitable joint. The inner ends of the cylinders and the connecting rods and crank are enclosed in a casing which has suitably placed sliding doors to lubricate the bearings and to examine and remove the pistons when necessary. The brackets may be rivetted to the boiler during its manufacture. By making the cylinders of cast steel their durability is ensured, and their steam passages may be very short. The outer cylinder ends may be furnished with packing plates to compensate for the wear of the brasses. In the boilers to these engines the saddle plate is made with thick laps or edges, in which plugs are inserted, through the apertures of which the insides of the fire box plates may be scraped or otherwise cleaned.

Coating Steam-Boilers,—Mr. J. Stonk, of Gray's Inn-road, has STEAM-ENGINES .- Mr. H. HUGHES, of Leicester, mechanical en-

nvented an improved coating composition, which he makes of pounded glass com-ined with carbonate of lime, sulphate of lime, silica, silicate of soda, alum, and not or charcoal. Of the pounded glass, silica, and sulphate of lime he prefers to see each 40 parts by weight, and of the carbonate of lime 12 parts by weight, and of the silicate of soda and alum each 1 part by weight, and of the soot or charcoal parts by weight. COATING STEAM-BOILERS .- Mr. J. STONE, of Grav's Inn-road has

DRYING WHITE LEAD.-Mr. A. PERRY, of Bromley-by-Bow, has patented an improved apparatus for drying white lead and similar substances, evaporating chemical and other liquids, and for other like purposes. According to the first part of his invention he arranges within a vertical chamber a wheel or drum formed of cast-iron, copper, or other metal. Above this wheel or drum is a pan connected with a cistern or vat containing the white lead or other substances to be treated. In combination with the said wheel or drum a scraper is arranged, and as the said wheel rotates the scraper removes the dried material, which falls into a properly arranged receptacle. According to the second part of the invention he arranges within a vertical chamber or stove a series of metal trays or purs one below the other, the upper pan being supplied with the liquid to be evaporated, which liquid pusses from one pan to another throughout the series, and is discharged from the last one into a settling pan.

TUYERES .- According to the invention of Mr. T. H. LLOYD. TUYERES.—According to the invention of Mr. r. H. LLOYD, of Wednesbury, the closing ring at the base of the conical tube of the tuyere and the ordinary water tube are dispensed with, and into the hollow or cavity in the hollow wall of the tuyere a spiral tube is fixed, the said tube being perforated with holes or having slits in it. A stream of water under pressure being sent through the coil a great number of small jets or a spray of water is projected on every part of the inside of the tuyere, and its over-heating effectually prevented. In place of a spiral tube, a frame or system of tubes may be used, and instead of a single tube of frame of tubes duplicates may be combined together so as to provide two independent monoilies of water.

COKE .- Mr. W. HACKNEY, of Pencoed, has invented a new process Coke.—Mr. W. Hackney, of Pencoed, has invented a new process for the production of an improved quality of coke. The invention relates to the production of an improved quality of coke, and consists in effecting the reduction to a fine state of division, by means of a "Carr's distintegrator" or by other means of the materials from which the coke if to be undermander, bituminous or exking coal, or any any free burning coal or anthractic, or coke refuse, or other non-caking in-d (to be made into coke), after mixing it with powdered pitch, or with tar, or other binding material (as is well known), and incorporating the same, or any mixture of them, with line, also in a fine state of division, and then submitting the mixture to a coking process, either in a retort or oven, as is well understood.

Mining Correspondence.

BRITISH MINES.

BRITISH MINES,

ABERDAUNANT.—S. Toy, May 19: Setting-Report: To drive an intermediate level east of the present No. 4 stope, by five men, at 6t, per fathom for the month; the lead in this stope has been gaining towards the east from the back of the No. 2 adit level to the present back of the stope, which is about 9 fms. above the No. 2 adit level, and as we have already two rises put up from this level for ventilation and convenience, I think it advisable instead of putting up another rise, to drive a few fathoms east, in order to lengthen our stoping ground: at present it is most productive. The lode in the present end of the stope is worth 8t, per fathom for lead. To stope in the roof of No. 1 adit, by four men, at 5t, per fathom for the month; the lode in this stope still continues good, and is worth 18t, per fathom for lead.

few fathoms east, in order to lengthen our stoping ground: at present it is most productive. The lode in this stope sill continues good, and is worth 18. per fathom for lead.

To stope in the roof of No. 1 adit, by four men, at 36. per fathom for lead.

BAMPFYLDE.—H. T. Haley, May 19: Setting Report: The 70 to drive east of No. 4 shaft with two men, at 36. 10s. per fathom; lode producing stones of copper ore. The 90 to drive west of No. 4 shaft with two men, at 36. 10s. per fathom; lode producing stones of copper ore. The 10s over this level, about 15 fms. behind the end, is up. there is not any levels driven over this rise in the start of the mine; which make it an important point. The 102, west of No. 4 shaft, is set to four men, at 36. 10s. per fathom; over this rise in this art of the mine; which make it an important point. The 102, west of No. 4 shaft, is set to four men, at 36. 10s. per fathom; lode 6 in. wide, producing stones of copper ore. No. 1 stope in back of the 102 set to four men, at 32. per fathom; worth 1 ton of copper ore per fathom. No. 3 stope in back of the 102 set to four men, at 32. per fathom; worth 35 ton of copper ore per fathom. No. 3 stope in back of the 102 set to four men, at 37. per fathom; worth 36 ton of copper ore per fathom. No. 3 stope in back of the 102 set to four men, at 37. per fathom; worth 36 ton 10s of the 102 set to four men, at 37. per fathom; worth 36 ton 10s of the 102 set to four men, at 37. per fathom; worth 10s of the 102 set to four men, at 38. per fathom; worth 10s of the 102 set to four men, at 38. per fathom; worth 36 tone 10s of the 10s

copper, and next week sample about 35 tons of lead, which we expect will realise about 1200l.—John Jennings, May 19: The lode in the 11, west of Doctor's engine-shaft, is 2½ ft. wide, producing good stones of lead, with mundic, and occasionally spots of copper ore, and water is issuing very freely. The lode has taken a more northernly direction in the last few feet driving, which I believe to be a good indication for improvement. The lode in the 11, east of said shaft, is 2½ ft. wide, producing good stones of lead, with quartz and mundic. This lode, in conjunction with the elvan course on the back of it, will not fall, in my opinion, in making deposits of lead of value in deeper sinking. The lode in the winze sinking below the adit level is just over the 11 end east; it is of the same character as the end below. I expect to communicate this week; it will then give good ventilation, after which I intend to drive a cross-out south about this point through the elvan, to intersect the south part, which at the adit level east is a very promising lode. The sinking of Doctor's engine-shaft below the 11 will be resumed as soon as it is practicable. The same may be said of the driving of the adit level west. The engine and pitwork are in good condition, and working well.

CATHEDRAL.—Joseph Mitchell, May 20: The lode in the engine-shaft is fully 3ft. wide, worth 25c, per fathom, a fine strong looking lode, which is safe to lead to a much richer course of copper ore. The lode in the end of the 30 west is worth quite 25c, per fathom. The lode in the cut of the 20 east is 2 ft. wide, producing rich stones of grey copper ore, green carbonate, 20ssan, quartz, and fluor spar, a very good-looking lode indeed. The winze in bottom of 20 west is worth 20c, per lathon. All other points much the same as for some time past.

very good-looking loid indeed. The winze in bottom of 20 west is worth 20%, per fathom. All other points much the same as for some time past.

COVEIRACK GRANTITE QUARRIES.—N. [Williams, May 19: We have displaced several hundred tons of granite since last report, and are proceeding with contracts with all speed, particularly for the coast guard buildings at Marazion. We have an opportunity of a contract to take 2000 ft. per month at a margin of 1s. 6d. per foot profit, as soon as we can fix cranes and take on additional hands; this contract we hope to accept.

CRENVER AND WHEAL ABRAHAM UNITED.—Wm. Thomas, 8. Arthur, May 19: Sturt's Engine-Shaft: In the 228, driving west, the lode is 1½ ft. wide, yielding a little copper ore. In winze sinking below the 215 the lode is 2 ft. wide, producing 1½ ton of copper ore per fathom.—St. George's Shaft: In the 216, driving west, the lode is 5 ft. wide, yielding a little copper ore per fathom with solds wery promising to open up some good ribute ground. In the 230, driving east, the lode is 2 ft. wide, yielding a little copper ore per fathom.—Woolf's Shaft: In the 220, driving west, the lode is 2 ft. wide, yielding a little copper ore per fathom.—Richards's Shaft: In the 220, driving west, the lode is 8 ft. wide, yielding a little copper ore per fathom.—Richards's Shaft: In the 220, driving west, the lode is 8 ft. wide, yielding a loop of copper ore per fathom.—Richards's Shaft: In the 220, driving west, the lode is 8 ft. wide, yielding a loop opper ore per fathom.—Richards's Shaft: In the 220, driving west, the lode is 8 ft. wide, yielding a loop on the sound of the per fathom.—Richards's Shaft: In the 220, driving west, the lode is 8 ft. wide, yielding a loop on the sound of the per fathom.—Richards's Shaft: In the 220, driving west, the lode is 8 ft. wide, yielding a loop on the sound of the per fathom.—Bit shaft: In the 220, driving west, the lode is 8 ft. wide, yielding a loop on the sound of the per fathom.—Bit shaft: In the 220, driving west, the lode is 8 ft. wide, yi

research of 507 tons (computed) of copper ore per fathom. We sampled yesterday 507 tons (computed) of copper ore.

DE BROKE.—T. Hodge and Son, May 20: All work in the mine is going on airly, and the bargains are without change since our last. We are getting on well no dressing another parcel.

dressing another parcel.
DENBIGHSHIRE CONSOLIDATED.—J. Pryor, May 19: The holidays have

DENBIGHSHIRE CONSOLIDATED.—J. Pryor, May 19: The holidays have interfered with our operations, so we have not done much at the 86 since my previous report. The men are now cutting into the lode or flat, and my next report will. I hope, contain its value. I may say that it certainly looks very promising. We have no change at the eastern or western ends of the mine. At the latter point (112 west) the men are striking for Parry's lode by the cross-cut. DEVON GREAT CONSOLS.—James Richards, May 21: The several points throughout the mines continue of the same value as reported last week. I am preparing the report for the meeting, appointed to be held on May 27.

DYLIFFE.—E. Rogers, May 19: Dyliffe Lode: At the 120 the end men are removed from driving the level, and put to rise in the back in order to drain the winze sinking below the 105, and am glad to say it has the desired effect; the lode in this rise is worth 181, per fathom. At the 40, 25, and 15 fm. level driving east, there is no alteration since they were last reported. In the winze sinking in the bottom of the 40 the lode is worth 181, to 201, per fathom.—Esgairgaled Lode: At the 45 we are driving by the side of the lode. In the cross cut at the 30 we have cut into some rich stones of lead ore, and expect to drive 6 to 9 ft. more before getting fully through the lode. We have sold 80 tons of lead ore to-day to Mr. Adam Eyton, at 144. 18s. 6d. per ton, realising 1194. A full report shall be sent

ou next week.
EAST CARADON.—J. Kellow, T. Trelease, May 19: Caunter Lode: In the 130

EAST CARADON.—J. Kellow, T. Trelease, May 19: Caunter Lode; In the 130 cast the lode is 5 ft. wide, composed of quartz, mundic, and peach, spotted with ore. In the winze sinking below the 115 the lode is 2 ft. wide, composed of mundic, peach, and quartz, with spots of ore. The branch in the midway, driving east, is worth 12½, per fathom.—Marke's Lode: In the 72 and 65, driving east, the lode if ft. wide, composed of quartz, peach, and prian, intermixed with a little mundic and ore. The ground in the different cross-cuts is without much change to notice. EAST WHEAL BASSET.—E. Pryor and Son, Edward Adams, May 19: There has been no change worthy of notice throughout this mine during the past week. Friday next being our pay and setting day a full report shall follow.

EAST WHEAL GRENVILLE.—E. Hosking, W. Bennetts, May 10: There is no change since our report of Thursday last.

EAST WHEAL GRENVILLE.—E. Hosking, W. Bennetts, May 20: The lode in the 130, west of engine-shaft, is 2 ft. wide, and worth 32. per fathom. The lode in the 130, cast of engine-shaft, is 18 in. wide, worth 32. per fathom. The 120 cross-cut is without change. The rise above the 110, cast of cross-course, is worth 54, per fathom. The atope above the 110 cast is worth 77. per fathom. The stope below the 95 cast is worth 64, per fathom. In the 25 cross-cut north the ground is favourable for driving, and the men are making fair progress; it is now in 7½ fms. EAST WHEAL LOVELL.—R. Quentrall, May 19: In the new shaft, sinking below the 100, the lode continues to look very well, producing 3½ tons of tin per fathom for length of lode (12 t). There is no change to notice at Tregouebris.

FURZE HILL—'V. Dolice, May 19: No. 1 North Lode: In the midway level, east from Bell's shaft, the lode is larger (2½ ft. wide), composed chiefly of capel, and letting out water: I hope for an improvement shortly.—Middle Lode: There is no change to notice in the 54 cast. The lode in the 40 cast is worth 64, per fathom. The sode in the paring another noted of thin for sale,

in the bottom of the 62 east is worth 15% per fathom. The stope in the back of the 70 is worth 10% per fathom. We are busily engaged in preparing to fix a new 11-in. plunger-lift at the 105.

GLASGOW CARADON CONSOLS.—Wm. Taylor, Wm. J. Taylor, May 18. We

the 70 is worth 10% per fathom. We are busily engaged in preparing to fix a new 11-in. plunger-lift at the 105.

GLASGOW CARADON CONSOLS.—Wm. Taylor, Wm. J. Taylor, May 18: We are pushing on the 78 east as fast as possibit, but no clange of importance are pushing on the 78 east as fast as possibit, but no more importance at the fore about the same value—7%. Per fathom. It mere favor, a a little improved, worth 8%, per fathom; this level east is middle level west at a little improved, worth 8%, per fathom; this level east is worth 18%, per fathom at little improved, worth 8%, per fathom; this level east is more worth 18%, per fathom. The 62 cast is improving, looking one favourable than for some time past, some branches of ore coming in which are soon come together, and should then make a productive lode. There is no charge of importance in the stopes and pitches, which continue about the same value as last reported. We are making good progress with the sinking of the new shall the weather for this is very favourable; we are also pushing up the rise male, and hope to communicate early this summer.

GLYN.—James Roach, May 20: We are busily engaged cutting down and earling Discovery shaft. When complered we shall commence sinking at one, and I believe before the close of the year we shall have discovered a valuable come of lead ore. The engine is on the spot, and preparations are being made to set in work. GOGIAN AND LEVEL NEWYDD.—May 17: Bryn Pica shaft has been carried up 10 ft. The air being so dead during the warm weather we have recently had has much retarded the progress at these points, but weeps make more speed, and quickly square the shaft down to the 100, and commence speed, and quickly square the shaft down to the 100, and commence sinking the warm weather we have recently had has much retarded the progress at these points, but weeps under the state of the progress at these points, but we work were the progress at these points, but we work over the 100 that has been carried up 10 ft. The air being so de

run attu a misse to time returns. The Grawing, dressing, &c., are being pushed forward as usual, and we intend sampling 25 tons of silver lead one on Tuesty, some time, and the water is getting low in the reservoirs; however, if dry for shall soon have some rain again to refill them, and give agood supply of wear. All points throughout the mines are being processed with the utmost dispate. He was a supply of the processed of th

on it. I shall ascertain this more think we have several fathoms to drive to reach it. I shall ascertain this more closely before we commence to drive there; I am only waiting to open out a little more at the 10, so as to be able to make my observations more correctly. The lode at the 10 has also improved since last week, and is now producing 1 ton of lead per fathom.

at the 10 has also improved since last week, and is now producing 1 ton of lead per fathom.

MEDLYN MOOR.—James Bowe, May 19: Since the last general meeting our time and attention have been fully occupied in the erection of the engine and bollerhouse, which are now completed, and our pumping-engine, a 40-inch cylinder, alluded to in my former report, is, I am much pleased to say, fixed, and was put to work the week before last. It is, I am pleased to say, a first-rate eagine. As soon as got it to work we resumed the sinking of our main engine shaft with miss shaft is now? I firm, below the surface. As soon as we have sunk this shaft is 13 fms. deeper, to a 20 fm. level, which will take about four months, we shall cross-cut to and open on three of the principal ides in our mines. Judging from the work done by the old tin streamers on these lodes near surface, I consider our winds shafts are sunk, although at present full of water. We are now fixing the iron rods from No. I shuft to our engine. This will take some weeks to complete, when the water will be immediately forked, and the lode, which is worth 12. per fathom, we shill resume working, and return in from it without delay. On the conjection of the connection between No. 4 shaft and the engine we shall proceed to fix the rods from No. 4 shaft with the engine, in which shaft there is a very good lode, from which we raised some rich tinstone, but not having sufficient power to keep back the water we were unable to follow it deeper. It concalisation, it can but repeat what I have told you before, that we have a splendid tin mining set in Medlyn Moor, and that but a few mountles from now will prove some of its capabilities.

ANGILLES.—J. Rowe, May 19: Since our meeting, held on Dec. 31 last, we

its capabilities.

NANGILES.—J. Rowe, May 19: Since our meeting, held on Dec. 31 last, we have continued driving the deep adit cross-cut south, but have not intersected the Clifford lode; this can only be accounted for by the lode taking a more southery direction in our mine than in that to the west of us. I have no doubt of the lode being ahead of our cross-cut, and would recommend that the drivage be continued

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value of the arsenic, of course, depends on the percentage of fine arsenic it contains but this is rarely ascertained the unsert in ting to do do in July, and the seller trusting to chimse so to what he shall get offered him. As the buyers are few in number, there goner dily is some private conversation around the corner before offers are made, but sometimes an outsider put in an appearance, and this occasionally leads to an advance of 30 per cent. in the price. There are several arsenic manufactories now in Cornwall—one at Devon Great Consols, and several near Calstock, one near Becralston, one at Gwithian, one at Roseworthy, one at Biscoe, one at Swanpool, and at other places.

CORNISH MINE SHARE MARKET.—In consequence of the holidays, the share market has been quiet during the week, and but little business transacted. The feature of the week are the three mine meetings held yesterday. A Timoroft a 5s. dividend was declared; the meeting passed off quietly. Capt. Teague stated he was importing his coals, which were of good quality, and cost him, declivered on the mine, 17s. 3d. per ton; price charged by local merchants for mine coals at present is 18s.; the question was also raised of mines importing their own timber from Norway, on which it was stated a considerable saving can be effected. At Carn Brea the accounts for the quarter showed a profit of over 1200t, but on charging up the 13th month's cost a loss of about 700t. was shown. At South Crofty a profit of 118t. was shown, and a balance against the mine of about 1000t; the remaining half of the 13th month's cost awas charged at this meeting; the prospects of the mine have improved. The following are the closing prices:—Cook's Kitchen, 5½ to 6½. Carn Brea about 40. Delocaths have been a little dealt in, 40 to 41. East Pool declined to 12, 13. East Lovells continue at 8 to 9. Providence are 3 to 4. Rosewall Hill, 5s. to 7s. 6d. South Carn Brea 22s. 6d to 25s., but not much dealt in. South Condurrows inactive, 3 to 3½. South Crofty, 15 to 16. South Frances,

The Mining Market: Brices of Metals, Ores, &c.

METAL MARKET-LONDON MAY 21 1875

		MI	ETA	L MARKET-London, May 21,	1875	
COPPER. & s. d.	. &	8.	d.	IRON. per ton. & s. d.	e s.	d
	- 91			Bars Welsh, in London 8 10 0-		
Tough cake and tile. 88 10 0	- 90	0			8 12	
Bheathing & sheets 94 0 0	-	-		Nail rods 9 0 0-		
Bolts 95 0 0	- 96				9 15	
Bottoms 95 0 0			0		0 10	
	- 83	0	0		1 10	
Australian, Wallaroo 90 10 0		-		Bars ,, at works 8 10 0-1		
ditto other brands 88 0 0		-			1 10	
Chili bars, g.o.b, 82 10 0	- 83	10	0		2 10	
Wireper lb. 0 0 11	3/4-	-			6 10	
Tubes 0 1 0	34-	-		Refined metal, ditto 7 0 0-		
	er l	b.		Bars, common, ditto 7 15 0-	8 0	
BRASS. I	94 -	100	1.	Do., merchant, f.o.b. \ 8 0 0-	8 5	
Wire	(d.		-	in Type or Tees)	-	
Tubes 93	11.	113	4d.	Do., railway, in Wales. 6 10 0-		
Tubes	4	000		Do., Swed. in London.16 0 0-1		
Yellow metal sheathing	8d.	-8-1/4	a.	To arrive13 0 0-1		
Sheets	Mar.	-801.			4 17	
SPELTER. per	ton.			Do., f.o.b. Type or Tees 4 0 0-		
Foreign on the spot 24 0	0-	_		Do., Nos.3,4, f.o.b., do. 3 10 0-		
, to arrive 24 0	0-	-		Railway chairs 4 10 0-		
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In sheets 29 10	0.36	0	0	Indian Charcoal Pigs, -	-	
# 11 DITO 11 11 11 11 11 11 11 11 11 11 11 11 11	0 - 176	, 0		in London, p. ton —	-	
TIN.				STERL. per t	on.	
English blocks & 90 0 0		_		Swed., in kegs (rolled)	-	
Do., bars (in brls.) 91 0 0		-		Ditto (hammered)19 10 0-2	0 0	
	-	-		Ditto, in faggots20 0 0-	-	
Banca 88 0 0					4 0	
Straits 83 10 0		. 0	0			
∆ ustralian 82 10 0	-	-		English Pig, com22 15 0-2	on.	
TIN-PLATES.* Pt	er bo	x.		English Pig, com 22 15 0-2		
Charcoal, 1st qua. † £1 13	0- 1	15	0	Ditto, L.B23 0 0-	_	
IX Do., 1st quality 1 19	0- 5	1		Ditto, W.B23 10 0-	-	
IC Do., 2d quality 1 11	0- 1	13	0	Ditto, sheet24 0 0-	-	
IX Do., 2d quality 1 17	0- 1	18	0	Ditto, red lead24 10 0-2		
1C Coke 1 5	0- 1	7	0	Ditto, white30 0 0-5	2 0	
IX Ditto 1 11	0- 1			Ditto, patent shot27 0 0-	-	
	0-18			Spanish22 5 0-	delega	
Ditto, at works 16 0	0-17	0	0	QUICKSILVER (p. bot.) 12 0 0-	-	
Dietoj ne mormoni,		-	-		v	
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Terne-plates 2s. p	dit, ()	UX	nelo	w tin-plates of similar brand.		

REMARKS.—The Whitsun holidays have to some extent interfered REMARKS.—The Whitsun holidays have to some extent interfered with the amount of business transacted during the week; but the tendency has been to slightly increased activity generally, although all metals have not participated in it. The favourable position of the Money Market, and the prospect for the future, are such as to inspire confidence, and the opinion is universally gaining ground that, although there may be no violent reaction, which would be much to be deprecated, there still is likely to be a gradual development of boan fide trade during the remainder of the year. This opinion is arrived at from the practical experience of the past months of the present year, during which so little business has been done. Consumption, however, has been going on, and meanwhile prices generally have come to that level which, under favourable circumstances, may enable buyers to enter the market and negociate business upon a larger scale than has been their habit of late. Recent railway traffic returns show that there has already commenced an increase in the business of the country; and this is surely one of the most infallible guides as to the real position of trade. There is no alteration in the Bank rate, but the weekly return shows a marked improvement, and is such as to inspire confidence.

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most infallible guides as to the real position of trade. There is no alteration in the Bank rate, but the weekly return shows a marked improvement, and is such as to inspire confidence.

COPPER,—This metal has been steady throughout the week, but owing in some measure, perhaps, to the Whitsuntide holidays, and also to the absence of news from Chili till towards the close of the week, the amount of business actually transacted was limited. The market is sustained in the main by the remarkably sound position which statistically it occupies; but the demand for consumption is small, and likewise for shipment, and there is very little speculation to impart even a temporary support to prices. Thus, the position so long maintained by this metal is due to the intrinsically sound condition of the market. Doubless, all that is now wanted to lead to marked improvement is a continuance of light supplies and satisfactory deliveries. It is probable that the returns of the latter at the end of the month will place copper in a yet more favourable statistical position. At the beginning of the week 1:68 tons of copper ore sold at Swansea at an average price of 16s. 15d. per unit, the percentage averaging 17 is 16 per cent. Cape produce yielded 10s. 5½d. per unit, the percentage averaging 17 is 16 per cent. Cape produce yielded 10s. 5½d. per unit, the percentage averaging 17 is 16 per cent. Cape produce in the continuance of the first hard for the first half of May were announced by telegram on Turusday last, being in all 2100 tons, and disposed as follows:—800 tons of ore and regulus and 100 tons, and disposed as follows:—800 tons of ore and regulus and 900 tons of bars for England, and the remaining 400 tons of bars for England, and the remaining 400 tons of bars for England, and the remaining 400 tons of bars for the Continuent. The charters being deemed to be somewhat large, the market is quiet, but holders are time, in the belief that there will be improvement in time, and that quotations meanwhile are not likely to recede t

and an amount of inconvenience too extended to estimate, has been attained. The men, being ill advised, were led to believe that the reduction of 10 per cent. proposed by the masters was a selfish movement, by which the masters were to be the gainers, and they the losers. It was determined to put the matter to the test, and the public were to be the arbiters. If as the men, or rather their advisers declared, the demand is such that the withdrawal of 50,000 men from the works will cause a panic in the trade, and prices advance, and such a pressure is brought to bear upon the masters that they are compelled to cill back their men at the old rate of wages, or at an advance even thereon, it will be a proof that the proposed reduction was unnecessary, and that the men were justified in resisting it, but the event has proved otherwise. The action taken by the men has put them and their families into very serious straits—has greatly inconvenienced the masters—and the public has looked on, either supplying their requirements from other markets as necessity demanded, or waiting until the men should go in at such a reduction in wages as should enable the masters to quote prices which buyers could afford to give. The loss has been wide spread, but if the men have gained experience by which they may profit on future occasions it will not be unmitigated loss. Surely the thousands now returning to their work after more than four months enforced idleness, during which the sufferings endured in the experience of many/must have been very great, have gone betwise, in a burden of indebtedness to the shopkeepers, without whose assistance they would have starved, and work as hard as they may it will take a long time to pay off old scores.

It is impossible to predict what the coming months of the year my unfold. At the present moment the production of coal is far exceeding the demand, and it is

they would have starred, and work as hard as they may it will take a long time to pay off old scores.

It is impossible to predict what the coming months of the year may unfold. At the present moment the production of coal is far exceeding the demand, and it is accumulating at the pit's mouth in considerable quantities. There must be a rapid improvement in the demand for iron to meet the output of the collieries, but this improvement has not as yet dawned. Should it be delayed much longer, a further reduction in wages must of necessity follow, but in view of the general aspect of affairs, the renewal [o pacific relations throughout Europe, the promise of a good harvest, and that this is the general impression may be gathered from the downward tendency of prices on the Corn Exchange, and the determination of the men to accept the masters' proposals with reference to the scale of wages to be now adopted, and by which they shall be hereafter regulated; it may be hoped that trade may revive, and that it may revert in time to its accustomed channels. There are still a large number of men in the Aberdare and Rhondda districts who have not yet decided upon the course which they intend to adopt, but during the week important meetings have been held, and resolutions adopted empowering the delegates to make the most advantageous terms possible with the masters at meeting which is convened for this day. The principle of the sliding scale has been fully discussed by the men, and carefully explained to a deputation of colliers by Sir George Elliot, and is accepted by them as sound and equitable. As the week closes, it appears probable that the last hostile demonstration will be with-

drawn, and on Monday next the men en masse are likely to return to their work. The Scotch pig iron market opened quiet after the holidays, and a limited business was transacted from 63s. 64. and 63s. On Wednesday the market presented a firmer appearance, and business was concluded up to 63s. 6d., closing sellers, with buyers 3d. under. On Thursday there was no market. To-day the price of m.n. is 63s. 9d.

Week ending May 15. 1875.

Week ending May 15, 1875... Week ending May 16, 1874... .. Tons 12,659

Lead.—This market is hardly so firm as it has been, and although quotations are maintained sellers would be prepared to submit to some trifling reduction in price in order to secure business. Good soft English pig, 22l. 15s. to 23l.; soft Spanish, without silver, 22l. to 22l. 5s., and with silver, 5s. higher.

Spelter.—Business has been done in Silesian at 24l. ex. warehouse in London, and 24l. 7s. 6d. at outports, May and June delivery. No change in English.

to change in English.

Zinc.—145 tons London rolled has realised 27l. 12s. 6d. to 27l. 10s. ZINC.—145 tons London rolled has realised 27l. 12s. 6d. to 27l. 10s. QUICKSILVER.—The last quotation for this metal is 12l. per flask. Tr.,—This market has been very firm throughout the week, but without much doing until Thursday, when the demand improved, and business was reported in Straits at rather higher prices. To-day the market has made further progress, and 84l., usual cash terms, is the price paid for Straits tin; Australian, 82l. 10s.; English ingots, 90l.; bars, 91l. to 92l. The market closes strong.

TIN PLATES are quiet.

TIN PLATES are quiet.

THE IRON TRADE (Griffiths's Weekly Report).—Friday evening, The Glasgow market for Scotch pigs closes this afternoon at 63s, 9d, sellers for G. M.B. iron. This is 1s, 3d, less than it was at the close this day week. Makers, iron is a little firmer this afternoon. Eglinton refuse to quote price. Glengarnock 1s, per ton higher at the close. The following are our quotations of makers' No. iron:—Gartsherrie, 68s.; Coltness, 70s.; Calder, 68s.; Lungloan, 68s.; Summer 68s.; Monkland, 65s., f.o.b. Glasgow; Glengarnock, 69s. 6d.; Eglinton, 63s., f.o.b. Androssan; Shotts, 69s., f.o.b. Leith; Kenniel, 69s., f.o.b. Boress. We have no change to report in the iron trade this week. In the manufacturing centres the Whitsuntide holidays closed all the works the first three days, and numbers of the manufacturing establishments have been quiet all the week. This remark applies to all districts in England. The quantity of iron delivered into the Thames this week is considerably less than on any previous week this year, on account of the holidays above referred to. There was no meeting at the Barrow Exchange on Monday. The market in Middlesborough on Tuesday was abnormal, and to some some extent unsettled, with very little business. Durham coke is offered more freely, at slightly lower rates. The Welsh strike may be considered at an end. With regard to our own market, there are increased enquiries for various kinds of iron, and the indications are favourable to extended business. The demand for sheet from continues unabated, and best bars of Yorkshire and Staffortshire makers are in regular request, at the current list rates. The new Galvanising Works, erected by the late Mr. Henry Mills, at the Pleck, Walsall, with the business, have been constructed with the most modern machinery, by Bridges and Sons, the well-known machinists of Wolverhampton, with all their new modern galvanising firm, of Netherton, near Dudley, and will be carried on by these gentlemen in connection with their Netherton Works. The Pleck

COPPER-(Messrs. Harrington, Horan, and Co., Liverpool) .-

COPPER—(Messrs. Harrington, Horan, and Co., Liverpool).—Arrivals here during the fortnight of West Coast, S.A., produce.—Castlehead, from Guayacen, 180 tons bars, 30 tons ingots; Avona, from Valparaiso, 135 tons bars. Beta, from Carrizal, 735 tons regulus; Serena, from Carrizal, 74 tons regulus. Matias Cousino, from Huasco, 70 tons ores, 234 tons regulus, 22 tons bars.—Ai Swansea, nil. Stocks of copper (Chilian and Bolivian) in first and second hands, likely to be available, we estimate at—

Ores. Regulus.

Bars. Ingots. Barilla.

Liverpool — 979 1,314 334 —

of Chili copper in Havre, May 1, 1920 tons. Stock of foreign copper in London, May 1, 8023 tons.

Messrs. James and Shakspeare.—COPPER: Sales of furnace materials have been confined to the Swansea Ticketing of 18th inst., when 1288 tons of ore, averaging 17 13-16ths per cent., fetched an average value of 16s. 19d., stuff of high percentage realising 16s. 5d. per unit. Without any important transactions taking place bars have recovered the fall we noted in our circular of 14th inst, and now stand at the same figure as they did in the beginning of the month. The Chili charters continue moderate, those for the first fortnight of May being telegraphed at 2100 tons pure, of which 900 in bars and ingots 800 in ores and regulus for England, 400 bars for the Continent. Judging from the values ruling in Valtarilas of the value seem that producers and exporters' have faith in eventually obtaining better prices on this vide, as importations of good ordinary brands would now cost 82l. 10s. delivered here, without providing any commissions to merchants. Australian sorts are tolerally steady, but a sale of Burra cake has been reported on somewhat easier terms. English descriptions are firm, and smelters seem rather disposed to ask higher rates. The deliveries of metal from the public stocks continue on a large scale, those for the first half of the month amounting in round numbers to 3000 tons. It is, therefore, possible that on 1st proximo our statistically with providing any centrely low point it has not stood since 1st December last. The future course of the article is likely to prove interesting, as within the next few months it will be seen whether the operators for a fall have been right in the next few months it will be seen whether the operators for a fall have been right in the next few months it will be seen whether the operators for a fall have been right in the next few months it will be seen whether the operators for a fall have been right in the next few months it will be seen whether the operators for a fall h

Mesers. Vivian, Younger, and Bond—Copper: The market for foreign shows but little alteration during the week, closing about 10s. better for Chili bars. The charters for the first half of this month were advised this morning by cable at epual to 2100 tons in fine copper. It would seem from recent advices that the stock has been accumulating in Chili for some time past, and according to the latest estimate is upwards of 8000 tons. English sorts are again rather easier.

—Tin: A little firmer for the week, but without much perceptible change.

Mesers. French and Smith—Copper firm. The charters from Val-araiso for the first half of May were 2100 tons. Chili bars steady at 821. 10s.— In is more in demand, but prices are not much changed. Straits firm at 831.

Tri is more in demand, but prices are not much changed. Straits firm at 82.

Mr. Murrant.—Tin: Although much is being made of the continued arrivals of, foreign in this port, the consumption would appear to increase, and quotations, under these circumstances, do not show signs of being further cheapened just now, the price of Straits is quite 10s. dearer than that of last week, and the export trade continues in a fairly healthy condition, 259 tons. Straits and 100 tons Australian have changed hands during the past week, at 81s. 86 d.to 83s. for cash and arrival.—Coppers: In Chill transactions have been somewhat limited, this being partly due to the Whitsuntide holidays, and partly to the fact that most operators have awaited the arrival of the telegram with the charters from the Coast, which was received yesterday morning advising the quantity as 2100 tons—viz., 800 tons farmace material, and 900 tons bars for England, and 400 tons—for the Continent, price of bars on the coast being \$18.55, or about equal to 82.5, 5s. 3d. per ton laid down in Liverpool, without commission to merchants on either side, an improvement of 20s. may be noted, and it is difficult to purchase except at the top rates; at the Swansea sale on the 18th instant, 226 tons fine in ore, with an average price of 16s. 1½d., per unit, and the week's sales of Chill in er reported to have been 400 tons g.o.b's., and best brands at 81l. 10s. to 82l. 10s. cash, and to arrive. Australian is quiet, and for English top prices are being demanded.—QUICKSILVER is still held for 12l.

Messrs, Pixley and Abell—Gold: The arrivals since our circular of last week have been very large, about 950,000/. having come to hand, including 436,000/. per P. and O. steamer from Australia, and about 380,000/. from New York; there is no export demand whatever, and the whole of the above will be purchased by the Bank of England—about 731,000/. having been already so disposed of. About 4000/., in gold coin, was shipped per Tagus to the West Indies. 70,000 sovereigns have been withdrawn from the Bank for the Brazils, and 10,000/. was shipped per P. and O. steamer Deccan, leaving Bouthampton this day, to Singapore.—BIVERE: Our market is very flat and inactive, and quotations almost nominal, the nearest price being 55½/d. per oz. standard. Revent arrivals have not yet been disposed of. The Sorata, from the Pacific, brought 95,000/.; the Tasmanian, from the West Indies, 34,000/.; and about 35,000/. has arrived from New York.

At the Truro Ticketing, on Thursday, 3173 tons of copper ore were sold, realising 15,994. 13s. 6d. The particulars of the sale were—Average standard, 114l. 7s.; average produce, $6\frac{2}{3}$; average price per ton 5l. 1s.; quantity of fine copper, 216 tons 3 cwts. The following ing are the particulars of the sales:—

Date. Tons. Standard. Produce. Per ton. Per unit. April 22. 1992 £111 16 0 ... 7 .£5 0 0 ... 14s. 5d. 4 ... 258 108 13 0 ... 75 ... 5 10 0 ... 14 5 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 ... 25 . Compared with the last sale, the advance has been in the standard 1l., and in the price per ton of ore about 1s. 4d.

At Swansea Ticketing, on Tuesday, 1268 tons of copper ore were sold, realising 18,205/. 5s. The particulars of the sale were—Average standard for 9 per cent. produce, 102/. 6s. 10d.; average produce

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The Mining Share Market has been without much change this week, either in the way of prices or business transactions. At the Cornish Ticketing, on Thursday, the standard for copper orea again advanced 1l. The sale consisted of 3173 tons, which realised the sum of 15,994l. 13s. 6d., or an average of 5l. 1s. per ton. The mines chiefly dealt in since our last have been West Chiverton, Roman Gravels, Tankerville, Wheal Grenville, Wheal Crebor, Great Laxey, Van, East Van, South Condurrow, Ladywell, Rookhope Valley, Bog, Pennerley, Parys Mountain, Penstruthal, and others. Roman Gravels, 12½ to 13½ ex div.; the sale of lead ores here.—230 tons—realised en Thursday an average price of 15l. 5s. 8d. per ton. Tankerville, 12 to 13 ex div.; the accounts for the general meeting show a balance of assets over liabilities of 6357l. 8s. 10d. The lead ores sold from April 18, 1874, to April 22, 1875, have been 1177 tons, for 17,155l. 9s. The monthly cost at the mine was 11,489l. 14s., 2d.; royalty to Lord Tankerville, 1177t.; London and other expenses bringing up the expenditure to 13,691l. 11s. 1d. showing a profit of 3463l. 17s. 11d. The assets consist of cash in hand, 4666l. 8s. 6d.; lead ores sold, 2212l. 10s. Ladywell shares have advanced 3½ to 3½. Samples have been sent out for a sale of 40 tons of lead ores.

40 tons of lead ores.

West Chiverton, 13\frac{1}{2} to 14\frac{1}{2}; the agent's report states that the 140, on south lode, west of Butler's shaft, is worth 35\llowline per fathom. A winze sinking from the 130, in advance of this end, is worth 55\llowline, per fathom. Here the agent states a splendid piece of ground is being opened. There is also another new piece of ground, where the end driving towards the 70 cross-cut, on the course of the north lode, is worth 33\llowline per fathom, going into whole ground from the 80 to the 60. Bog. 10s. to 12s. 6d.; Cook's Kitchen, 6 to 6\frac{1}{2}.

Tincroft, 19 to 21; at the meeting, held on Wednesday, a dividend of 5s. per share was declared. The accounts charged up to December, with labour cost for January, amounted to 8362\llowline L. The credit for tin is 9780\llowline. The mine is reported to be looking well, but much

ou to no co. Bog. 103. to 123. dt.; Cook's Kitchen, 6 to 64.

Tincroft, 19 to 21; at the meeting, held on Wednesday, a dividend of 5s. pershare was declared. The accounts charged up to December, with labour cost for January, amounted to 8362l. The credit for tin is 9780l. The mine is reported to be looking well, but much affected by the price of tin, of which 197 tons had been sold in 15 weeks, and the difference made in the credits by a fall of nearly 40l, per ton may be readily conceived. In a winze sinking below the 234 the lode is worth 100l, per fathom. Carn Brea, 39 to 41 at the meeting here there was a loss shown in the quarter of 757l, and a balance apparently in hand of 4305l. The costs, however, were only charged tolJanuary, amounting to 12,806l. The tincredit, some of it not sold, amounted to 10,892l., with 50 tons not sold. In this mine the purser stated they were receiving 40l. per ton less than the old price for tin, which in 200 tons makes a difference of 8000l. on the quarter. He said, however, that miserable as the price now is Cornwall he had seen it worse, and had outlived it, and he did think they would outlive this fall also.

Povidence Mines, 3 to 4; at the meeting there was a loss shown of 367l. on the three months' working, and a debit balance of 33l. 14s. 1d. The tin sold, 53 tons, realised 2762l., and the agents hope to sell enough to pay costs next quarter. New Pembroke: there was a debit balance here of 504l. carried forward. The credits were 32 tons of tin, at 55l. 15s. per ton; copper ores, 1022l.; loss on four months, 231l. The main lode in the bottom level is worth 25l. to 30l. per fathom. South Crofty, 15 to 16. The accounts here show a profit on 12 weeks' working of 118l, and a debit balance of 1051l. The credits were—copper, 1238l; arsenic, 703l; tin, 146l. The show a profit of 603l. and a debit balance of 1083l. The eredits were—copper ores, 1214l; tin ores, 5089l. The mine is looking better, and it was stated that at 60l. per ton for tin the mine would make good profits. Gre

any moment."
St. John del Rey, 385 to 395; the produce for the month of April was 47.000 oits., or 18,212L; for the first division of May, 17,000 oits., or 6587L Eberhardt and Aurora shares advanced to 17½ but leave off 6 to 6½. Richmond shares better, at 9 to 9½. Birdseye, 2 to 2½; Chontales, ½ to ½; Don Pedro, 1L 8s. 9d. to 1L 11s. 3d.; Emma, 1½ to 2; Flagstaff, 2½ to 2½; Frontino and Bolivia, 10s. to 12s. 6d.; Javali, 12s. to 14s.; Malpaso, ½ to ½; Malabar, 14s. to 16s.; Rica Gold, ½ to ½; Thornhill Reef, 4s. to 6s.; Port Phillip, 1 to 1½. The San Pedro Company is issuing debentures bearing interest at 10 per cent... with the option of conversion into shares at par within twelve cent., with the option of conversion into shares at par within twelve months from this date. A large amount has, we understand, been taken, and ample funds telegraphed to the company's bankers at Valparaiso. The machinery is all at the mine and in course of erection, all the heavy work being completed. The board of directors have have been strengthened by the accession of an influential gentleman of services the experience. of serviceable experience.

The Market for Mine Shares on the Stock Exchange during the earlier part of the week was adversely influenced by the holidays, but the prospect of easy money, improving trade, and freedom from political complications encouraging holders of stock, values remain firm against buyers, although the volume of business has been upon a somewhat diminished scale. The tendency clearly points to further intercement while the research of descriptions of the research ther improvement, while the amount of floating stock is gradually lessening. Copper has slightly advanced; the charters for the first lessening. Copper has slightly advanced; the charters for the first half of the month were advised yesterday (Friday) morning by cable as equal to 2100 tons in fine copper; recent advices would seem to indicate that the stock has been accumulating in Chili for some time past, and according to the latest estimate is upwards of 6000 tons. Tin firmer, and lead quieter, with somewhat easier quotations.

The Wichita Copper Company have received a telegram, from which it would appear that the representations have not been borne out. It is true only one region in which the deposits were said to exist was investigated, and that an inspection of the second may prove a success. It reflects great credit upon the projectors and directors, that there was not only no promotion money paid or profit made, but had the property been taken over the purchase-money would have been solely in shares. All dealings have been subject would have been solely in shares. All dealings have been subject to the "coming out," thus saving the public any loss. Had all the foreign mining companies been introduced in a similarly honourable manner, and the same amount of care and caution exercised, this important branch of mining enterprise would now be as much in public favour as any other department of commercial industry. The following is the telegram above referred to:—"Seen Scott's; is not as represented, will not pay to work; very speculative. Returning home; all in good health. Unanimous opinion."

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higher prices realised. The regulus produced in the six months ending December 31 contained about 1737 tons of pure copper, and realised about 104,993/. In the previous half-year the copper contents were about 1743 tons, and the sum realised about 103,750/. The mining report for the six months is considered of an encouraging character, and its satisfactory nature seems, so far, confirmed by the two subsequent monthly reports. Cape Copper, 34 to 35; Rio Tinto, 8½ to 9; Russia Copper, 3 to 3½.

In Lead Mines business has been comparatively restricted. Van, 23 to 25; the lode in the 90 fm. level is improving. The 75 west is worth 70%, per cubic fathom. The same level east is worth 55%, per cubic fathom. The 60 west is worth 100%, per cubic fathom. Other points without change. Everything progressing in a satisfactory manner. Van Consols, 2½ to 2½; the main shaft is now down within 5 fathoms of the Van lode. This should be reached in about six weeks from this date. The new drawing shaft is being rapidly pushed down. No change in any other part of the mine to call for remark. Glyn; the men are busy at Discovery shaft, and Captain Roach is sanguine of reaching a good course of lead before the end of this year. Great West Van, 10s. to 15s.; Captain Hodge still gives great hopes of a good discovery of lead in the 34 cross-cut: 16 tons of lead was sampled this week. Bog, 9s. 11s.; the agent reports that he has just inter-sected the north lode at the 163 fm. level, where it is worth 15% per fathom. Other parts of the mine unchanged. Pennerley, 2½ to 2½; the various points of operation are progressing as usual. The shaft at Potter's Pit will be down to the 15 by the end of the month. The lode in the winze sinking below the 65 still maintains its value, 100% per fathom. Assheton, 1½ to 2; the shares continue to be enquired for, and the mine fully maintains its former value.

In Tin Mines a renewed demand has taken place, owing to the improving condition of the market for that metal. Docath have changed hands at 40 to 42½. East Lovell, 3½ to 9½; Carn Bres, 40 to 42. Great Wheal Vor, ½ to ½; the forking of the water out of West Metal shaft has been steadily carried on during the past month, and the agent expects before the end of June to see the bottom of the mine. As far as drained the appearance of the lode is favourable for a good mine in depth. Cathedral, 25s, to 35s,; then to the mine as far as drained the appearance of the lode is favourable for a good mine in depth. Cathedral, 25s, to 35s,; then to the agent expects before the end of June to see the state of the control of the contr

SHEFFIELD.—Messrs. Liddell and Heard, stock and sharebrokers, in their weekly report, say—The Whitsuntide holidays have caused business in this town to be very dull. Bheffield Water shares only in demand at 5 per cent. advance. The following are current rates:—Bilbao Iron Ore Company, 3½ to 2½ dis., 3 dis., 5 olckow, Vaughan, and Co., 15½ to 16 prem; Brown, Bayley, and Dixon, 34 to 33 dis., 34½ dis., 34 dis.; Charles Cammell and Co., 8½ to 7½ dis.; Charlton Iron Company, 30½ to 29½ dis.; Ebbw Vale Steel and Iron Company, 8½ to 8 dis.; G. and J. Brown and Co., 52 to 78 dis.; Hopkins, Gilks, and Co., 5 to 4 dis.; John Brown and Co., 52 to 78 dis.; Hopkins, Gilks, and Co., 54 to 4 dis.; John Brown and Co., 52 to 78 dis.; Hopkins, Gilks, and Co., 54 to 4 dis.; John Brown and Co., 52 to 78 dis.; Hopkins, Gilks, and Co., 55 to 4 dis.; John Brown and Co., 52 to 78 dis.; Hopkins, Gilks, and Co., 55 to 4 dis.; John Brown and Co., 52 to 78 dis.; Hopkins, Gilks, and Co., 55 to 4 dis.; John Brown and Co., 52 to 78 dis.; Hopkins, Gilks, and Co., 55 to 4 dis.; John Brown and Co., 52 to 78 dis.; Hopkins, Gilks, and Co., 55 to 4 dis.; John Brown and Co., 52 to 78 dis.; Hopkins, Gilks, and Co., 55 to 4 dis.; John Brown and Co., 52 to 78 dis.; Hopkins, Gilks, and Co., 55 to 4 dis.; John Brown and Co., 52 to 78 dis.; Hopkins, Gilks, and Co., 55 to 4 dis.; John Brown and Co., 52 to 78 dis.; Hopkins, Gilks, and Co., 55 to 40 dis.; John Brown and Co., 52 to 78 dis.; Hopkins, Gilks, and Co., 55 to 40 dis.; John Brown and Co., 52 to 78 dis.; Hopkins, Gilks, and Co., 55 to 78 dis.; Hopkins, Gilks, and Co

With this week's Journal a Supplemental Shert is given, Original Correspondence; Coal Cutting Machinery (W. Firth, J. Oxnard, E. Oggins); Coal in Nova Scotia—the Picton Coal Field; Gauley Kanawha Coal Company (D. T. Ansted); Mining in Queensland; Nickel, Cobalt, and Chrome Iron Mines of New Caledonia; Spanish Copper Pyrites; Eberhardt and Aurora Mining Company (H. Sewell); Javail Mine; Rock Drills (McKean and Co.); Dynamite and Powder; Gas Machines for Mines; Wind Power for Mines; Inverted Plunger Poles (R. Knapp); Ships' Water Lines; Mineral Resources of Ireland (J. Penrose); Yan Mine; Wheal Owles; Crenver and Wheal Abraham Mines Company; Tyllwyd Mine; St. Patrick Mine, Finishine; South Wheal Frances (R. Goldsworthy); Port Phillip Mines—Foreign Mining and Metallurgy—American Pumps (ilustrated)—Meetings of the Binn's Patent Endless Band, Richmond Consolidated, Vancouver, Little-dean Woodside, Pestarena, Providence, Botallack, Standhill, Carn Brea, Tincroft, and Frank Mills Companies.

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IRON ORES A SPECIALITY.

M R. R. PERCY ROBE FINANCIAL AGENT, CARLISLE. ROBERTS,

OHN WILLIAM EARDLEY, MINERAL AND LAND SURVEYOR, AND ESTATE AGENT.

CERTIFICATED COLLIERY MANAGER UNDER THE "COAL MINES REGULATION ACT, 1872." OFFICES,-ST. JAMES STREET, DERBY.

Notices to Correspondents.

Much inconvenience having arisen in consequence of several of the Numbers during the past year being out of print, we recommend that the Journal shauld be filed on receipt; it then forms an accumulating useful work of reference.

BISMUTH.—We notice an enquiry in the Journal of this day, under the head of "Bismuth." As we are generally the largest bismuth smelters in Europe, per-haps you would direct your correspondent to apply to us—JOHNSON, MATTHEY, AND CO.: Hatton Garden, London, May 15.

AND Co.: Hatton Garden, London, May 15.

ABBBRTOS.—I send you by rail to-day sample of asbestos, and shall be glad if any of your correspondents can inform me where I can procure a market, and at what price?—F. R. [The sample can be seen at the Mining Journal office.]

BRAGANZA GOLD MINE.—Can any of your numerous readers give me any information as to what is being done with this company?—J. C. H.

IMPORTANT MECHANICAL INVENTION.—Will some reader oblige me with the address of Mr. D. Drummond, of Swanses, whose invention for steel hardening was mentioned in the Mining Journal of last Saturday as having been tried at the Cardiff Engine Works, &c.?—D.

Cardiff Engine Works, &c.?—D.

IRON ORE IN CEYLON.—Can any correspondent inform me whether iron ore is found and worked in Ceylon, and of what kind and quality it is.—M. J.: Kingston.

MINE SUMPEYING.—Can any correspondent inform me the readiest method of making an underground plan agree with the surface plan? I have tried there times with the ordinary dial, commencing once at one shaft, and twice at the other, carefully taking the bearings by the needle both before and after descending, and I cannot get the underground lines true without making heavy allowance for variation, or rather putting down the underground lines, and then shifting the entire figure to make the shafts correspond.—IGNORAMUS.

SEWAGE PIPS.—"D. G." (Weatherby).—The price of 15 in. Wortley sewage pipes may be estimated at about 1s. 64. (or at about 3s. in position) per running foot. Junctions may be estimated at 5s. cach in addition. There is not more than 2d. per foot difference between the price of 12 in. and 16 in. pipes. It would be difference to the continuate exact cost without knowing locality and local rates of wages, &c.

SULPHATE OF BARYIA.—As a mine with which I am connected produces pretty

Reult to estimate exact cost without anowing locally state of the Sulphare of Barria.—As a mine with which I am connected produces pretty considerable quantities of this material, which the officials tell me is practically worthless, can any correspondent inform me where it can be sold, and how much per ton it will fetch? I have, I feel sure, seen the sulphate of barries advertised for in the Journal, so that there must be a market for it. What are the purposes for which it is used?—K. L. J.

WEST MOSTYN COAL AND IRON COMPANY.—Can any reader of the Journal some reliable particulars as to the actual position and prospects of this pany? So many conflicting rumours being current, it would be very desi if someone, in authority or otherwise, would relieve our minds by a state of facts.—Shareholder.

of facts.—SHAREHOLDER.

SAFETY-CAGES—"Engineer" (Wigan).—Mr. Myst's safety-cage is at least a dozen years old; it was exhibited, in fact, at the London International Exhibition of 1862, and described in the Mining Journal at the time. It consisted in using a couple of forks, which, in the event of the rope breaking, were forced against the guides. Aytoun's, also exhibited in 1862, was equally simple. Either could be made and fixed for 5s. or 10s.

CHEMIGAL ANALYSIS—"J. K." (Strand).—The best cheap work on this subject is Dr. Noad's Manual, published by Lovell, Reeve, and Co., of Henrietta street, Covent Garden. It contains 500 or 600 pages, and the price is about half-aguinea. It is a few years old now, but nothing has since been published surpassing it. The explanations are all very lucidly given, and although concise furnish all the information required. Dr. Noad has had great experience in teaching, and is professor or lecturer at St. George's Hospital. His recent work on Commercial Analysis is in dictionary form, and is published by Messrs. Lockwood, Stationers' Hall-court.

Hall-court.

Received,—"T. P."—"H. R."—"W. H. 8."—"S. L."—"T. T."—"N. 8."—"Enquirer" (Leith)—"Sharcholder" (New Consols)—"Correspondent" (Lostwithiel)—"B. L."—"Sharcholder" (Van Cousols)—"An Old Miner" (Tyllwyd)—"Sorutator" (Flagstaff) had better apply at the office for the information. The directors would not reply to an anonymous enquirer—"T. R."—"T.;" The price of West Milwrshares in Mr. Marlborough's advertisement was an error—it should have been 17s. 6d.—"G. 8."

THE MINING JOURNAL

Railway and Commercial Gazette.

LONDON, MAY 22, 1875.

THE BUNKERS HILL COLLIERY EXPLOSION. OUTBURSTS OF GAS IN MINES.

The enquiry as to the cause of the deaths of the 43 men and boys who were killed by the explosion at the Bunkers Hill Colliery has resulted in something like an open verdict, in which the proprietors and managers were exonerated from all blame. The jury, however, recommended that blasting should be done away with in all mines where safety-lamps were considered necessary. No one, we think, can find fault with the decision come to, for it appears the colliery was one of the best ventilated and managed in the district, as very often happens to be the case where there has been a serious loss of life through an explosion. The cause of the accident was evidently of life through an explosion. The cause of the accident was evidently of a nature that is not of very frequent occurrence in our collieries, and against which there is no means of guarding or preventing. There had been an upheaval of the floor, which liberated a stream of gas, at the same time there was a shot fired, which in all probability set free more gas; the flame was thus fed on all sides, terminating in the serious loss of life to which we have alluded. In all mines where gas is known to accumulate, and safety-lamps are used, every place should be constantly inspected, for the natural fissures of the ground are sufficient to 'convey the gas through them. A sudden outburst of gas from the floor may be so great that the largest amount of ventilation may be insufficient to dilute and render it harmless, but in the event of its coming in contact with a light under such circumstances then the destruction of life and property is complete. Therefore it is essential that in all fiery mines every under such circumstances then the destruction of life and property is complete. Therefore it is essential that in all flery mines every precaution should be taken to meet such a contingency, and the entire of the workings watched with as much vigilance as a powder magazine would be, for the partition between safety and destruction in many mines is very thin indeed. In all such collieries on no account whatever should blasting with powder be allowed, and this view we have on several occasions of late enforced with all the vigour we were capable of, but it would appear that past experience has not in all cases been sufficiently deterrent, so that in some instances it is only when there has been a great loss of life that the has not in all cases been sufficiently deterrent, so that in some instances it is only when there has been a great loss of life that the cause which led to it is abolished. For this we do not blame the employers, for only quite recently we have seen miners opposing the doing away with gunpowder, and almost ready to strike in its favour, because by it they can make better wages than by ordinary wedging. Yet in some other districts it is only fair to say the men have refused to work with powder. In so very vital a matter, however, affecting as it does the safety of thousands, we should allow no option whatever. The u-e or disuse of powder should be defined by Act of Parliament, and not left to the decision of either winers or managers. In this view we are supported by Mr. F. Wals. defined by Act of Parliament, and not left to the decision of either miners or managers. In this view we are supported by Mr. F. WARDELL, the Inspector of Mines for Yorkshire, who considers that legislation ought to have gone farther than it did, and entirely prohibit the use of gunpowder in those fiery seams where safety-lamps were used. That such will be done there is now but very little doubt, especially after the recommendation of the Bunkers Hill jury, and the statements made by the experts who gave evidence at the inquest. Mr. Gilroy, the Assistant Government Inspector for North Staffordshire, in his evidence before the Coroner said the lesson unmistakeably forced upon his mind was, "Never use gunpowder in a fiery mine." Mr. WYNNE, the Chief Inspector, concurred in that view, at the same time remarking that it was a "Perfect farce to allow blasting and forbid naked lights, for these sad calamities would continue to occur if the Legislature did not step in and forbid blasting altogether."

Had such a law as that indicated been in force a few years past

Had such a law as that indicated been in force a few years past Had such a law as that indicated been in force a few years past in all probability we should not have had to chronicle the dreadful explosion at the Oaks Colliery, with its 360 dead (nearly 100 of the bodies being still unrecovered in the mine), or the many serious calamities which have been recorded with respect to Lancashire and North Staffordshire, where the loss of life has been very great. The Morer's Stanfording, where the loss of fine has been very great. The Miners' Parliamentary Committee, to our thinking, under such circumstances, and with a full knowledge as to the cause of past and recent catastrophes from the use of powder, could not be more benefically employed in the interests of those they represent than by advocating the passing of a measure, or rather an addition to the cisting Mines Regulation Act, for doing away with blasting in all mines where gas was known to accumulate. Unfortunately, many miners labour under the idea that so long as they are provided with miners labour under the idea that so long as they are provided with a safety-lamp they are ensured against all danger—a delusion which

has been plainly demonstrated on so many occasions, and no where more forcibly than at the Bunkers Hill Colliery. We do not believe there would be the slightest opposition from any quarter to such a proposal, for it would commend itself alike to the colliery owner, there would be the slightest opposition from any quarter to such a proposal, for it would commend itself alike to the colliery owner, the collier, and the public generally, whose sympathies are so frequently shown by the very liberal manner in which they subscribe towards those who are left destitute owing to fatal colliery accidents, the number of which would be greatly reduced by the disuse of powder. This would be only necessary at certain places, for many mines have no gas, or very little indeed, for most mining engineers will agree with the report of 1842, as applicable to a great many districts, that "a mine when properly ventilated and drained, and when both the main and side passages are of tolerable height, is not only not unhealthy, but the temperature being moderate and very uniform, it is considered as a place of work more salubrious, and even more agreeable, than those in which many kinds of labour are carried on above ground." But, of course, there are other mines where the reverse of this is realised by the workmen.

Outbreaks of gas in mines from the floors, as we have before stated, are not of common occurrence, at least to a serious extent, and in but few instances have any complete records of them been made known, although they are particularly dangerous from the fact that they are scarcely ever anticipated, no more than they can be specially provided against. There are, however, one or two cases that are worth noticing. Some years since, at the well-known Oaks Colliery, in the West Riding of Yorkshire, two banks, each 40 yards wide, were being driven together as long-work when the fire-clay of the floor of the seam was seen to heave at different points along the face, and immediately afterwards considerable fractures were made in it, when the gas rushed out with great violence, the sound being similar to that of steam coming from a boiler at a high pressure. The current of air carried the gas past the workmen in the banks, and their Stephenson lamps were extinguished. On an exa-

being similar to that of steam coming from a boiler at a high pressure. The current of air carried the gas past the workmen in the banks, and their Stephenson lamps were extinguished. On an examination of the fractures from which the gas issued they were found to be several feet deep. Mr. Brown, who was then the chief engineer, informed us that had there been a defective lamp or a naked light, or if one of the Davy lamps had become red-hot and dropped on the ground, or if the return air had passed over the furnace, there must have been a terrible catastrophe. More recently there were two very heavy outbursts of gas from the floor under the Silkstone coal at the Strafford Main Colliery, near Barnsley. In the first instance there was a rush of wind and dust with gas firing the lamps, which were soon extinguished, whilst two of the men were completely overpowered with the gas in one of the gates, and at another place a man was also left in a state of stupor. The lamps were extinguished with a current of air of 11.500 ft. per minute at a velocity of 360 ft. per minute, and meeting another current of 5500 ft. The tinguished with a current of air of 11,500 ft. per minute at a ver of 360 ft. per minute, and meeting another current of 5500 ft. fire-damp continued coming from the crack in reduced quantities for more than a month after the occurrence, and then gave off a small for more than a month after the occurrence, and then gave off a small regular quantity. Fortunately the lamps used were the Stephenson, and all without defect, otherwise a serious explosion in all probability would have taken place. On the second occasion the gas came out strong enough to foul a strong current of air, being 10,000 to 12,000 per minute on the face, where it joined with 8000 ft. more per minute, for upwards of four hours after first coming off. At one place the noise was like the blowing off of steam. There was a crack under the solid coal, and the gas came out so strong that with 8000 ft. of air per minute the men could not get past it. Between two points there were 60 yards length of crack, besides continuing further into the goaf. A bore-hole was then made, and some interesting experiments were made. The hole was 23 in. in diameter, and a gas-pipe of $1\frac{1}{2}$ in diameter was put down about 7 ft., the sides being rammed down solid. A steam-pressure-gauge was the sides being rammed down solid. A steam-pressure-gauge was put on, and in 35 minutes it went up to 30 lbs. per square inch, and then, with a few seconds of rending and disturbance, the floor broke, and the gas spent at a crack some 2 yards from the hole, the gauge going back to 19 lbs. Tested by a meter, the gas given off was 930 ft. in 88 hours.

In another experiment the register rose to 101 lbs. per square inch. Besides the pressure registered, the gas was bearing a column of water from a depth of from 51 to 74 ft., being that depth where the gas discharged, which was equal to an average of 62½ ft. head of water, or 27 lbs. additional, thus making the actual pressure 128 lbs. per square inch. Mr. Miller, the manager of the colliery, says. "With such a dangerous material in such terrible force under our feet, a such a dangerous material in such terrible force under our feet, a safety-valve, such as is effected by boring in this way, might prevent such a force acting suddenly." He does not assume that all blowers of gas, or even most of them, come from the floor of the mine, but many do, and the crack is not discovered from being buried somewhere in the goaf where it may have found an easier line of fracture than in those cases where a long line of face was the easiest breaking point. It is evident, however, that fire-damp, whilst pent up is under conditions of very great tension or force. Mr. Miller says that whether the pressure of gas is at the depth from the surface or not it is lodged with an encorpora some answer of force. Mr. Miller says that which appears most demonstrable with regard to outbursts is that whether the pressure of gas is at the depth from the surface or not it is lodged with an enormous amount of force, where the floor is thus impervious, and is acting against a lessening amount of resistance as the coal face advances, by whatever method of working. The question as to how such insidious, dangerous, and sudden outbursts of gas can in any way be met, so as to prevent accidents or loss of life is one of very great importance indeed, and well worth receiving the best consideration of our ablest mining engineers. One thing, however, is certain, after the serious calamity at Bunkers Hill Colliery, as well as the many that have preceded it at other places, that blasting in fiery seams of coal should be no longer tolerated.

COAL IN NOVA SCOTIA.

COAL IN NOVA SCOTIA.

Coal was raised last year in Nova Scotia to the by no means unimportant extent of 872,720 tons. The value of this production was estimated at about \$2 per ton on an average, taken at the pit's mouth. In 1873, it appears, 881,106 tons of Nova Scotian coal were sold, but last year the sales fell off to 749,127 tons, showing a decrease in 1874 of 131,979 tons. In 1872 and 1873 trade was comparatively brisk, and hence there was a considerable external demand for Nova Scotian coal; but last year was a relatively dull period. In spite, however, of occasional checks, and occasional intervals of commercial depression, the consumption of Nova Scotian coal has exhibited a steady progress. Up to 1821 the quantity sold annually did not average more than 7000 tons per annum, but in 1830 the yearly total had risen to 27,269 tons. By 1836 the figures had expanded to 107,593 tons, and in 1846 they had grown to 147,506 tons. In the last 28 years the advance made has been much more rapid. Thus in 1856 the sales of Nova Scotian coal were 253,492 tons and 558,520 tons in 1866. The demand went on growing after 1866, until, as already indicated, 881,106 tons were sold in 1873; last year the tide ebbed, but it will no doubt again begin to flow in a few months. At the same time, it must be confessed that Nova Scotian coal mining has scarcely made the progress which it might have been mining has scarcely made the progress which it might have been cted to achiev

xpected to achieve.

The demand for Nova Scotian combustibles has very greatly increased in Canada since the Canadian provinces were one powerful Dominion; but, in consequence of the increased at-tention devoted by the Americans to coal mining pursuits, the shipments of Nova Scotian coal to the United States have been rather slipping back during the last seven years. In 1874, for instanc the Nova Scotians supplied the Americans with 126,425 tons tons coal less than they forwarded to the United States in 1873; formerly coal less than they forwarded to the United States in 1873; formerly there was a good American demand for Nova Scotian coal for gas-making purposes; but the Americans now supply themselves with gas coal principally from their own mines, and they can do so upon comparatively cheap terms. The contract price of American coal in 1874, delivered at New York, was \$7.50 per ton. Cape Breton (or Nova Scotian) coal had to contend upon the New York market against an import duty of \$0.75 per ton, while the freight to New York was also \$4.00 per ton, so that altogether Cape Breton coal could not be delivered for consumption in the commercial capital of the United States for less than \$7.15 per ton. A balance of only \$0.35 per ton accordingly remained in favour of Nova Scotian coal, and this was so small a margin that it could not command the

trade. The only means by which Nova Scotian coal can be delivered of steam colliers instead of the sailing vessels at present in use.

It may be remarked that Great Britain, with the aid of steam

It may be remarked that Great Britain, with the aid of steam colliers, is enabled to deliver coal profitably upon the markets of the West Indies, while Nova Scotia, although 2500 miles nearer to those markets, only delivers comparatively small quantities of its coal upon them. Another point which tells in favour of English coal, as opposed to Nova Scotian combustible, is the introduction in England of coal-cutting machinery, and, of course, the decline which occurred, upon the whole, in the price of English coal last year exerted a depressing influence upon the demand prevailing for the products of the Nova Scotian mines. What is clearly needed in Nova Scotia to enable her coal resources to be turned to more extended account is both more capital and more labour. Nova Scotia from the thickness of her coal seams and her excellent geographical position, ought, one would think, to be able to supply the markets of Canada, the West Indies, and North and South America upon more favourable terms than any other country; but, as a matter of fact, we find that coal is being worked in only four Nova Scotian provinces—Cumberland, Pictou, Cape Breton, and Victoria—although it exists in several other parts of the province.

The amount of coal raised in 1874 in the four Nova Scotian counties in which coal mines are being worked was as follows:—Cumberland, 51,580 tons: Pictou, 410,876 tons: Cape Breton, 94,286 terms.

The amount of coal raised in 1874 in the four Nova Scotian counties in which coal mines are being worked was as follows:—Cumberland, 51,580 tons; Pictou, 410,876 tons; Cape Breton, 404,286 tons; and Victoria, 5996 tons. The falling-off observable last year in the production of Cape Breton county as compared with 1873 was more than 200,000 tons. The decrease in the Pictou district last year did not exceed 24,000 tons; the Cumberland mines nearly doubled their extraction last year, with every prospect, too, of a continued increase. Of the Nova Scotian coal raised last year, 214,965 tons were consumed in Nova Scotia herself, 162,269 tons went to Quebee, 78,841 tons to New Brunswick, 45,696 tons to Newfoundland, 41,948 tons to Prince Edward Island, 138,335 tons to the United States, 47,844 tons to the \(\) est Indies, &c. However, Nova Scotian coal mining is yet in its infancy. coal mining is yet in its infancy.

THE COLLIERY EXPLOSION IN NORTH STAFFORDSHIRE.

[FROM A CORRESPONDENT.]

In the article upon this subject in the Journal of May 8, attention was drawn to the fact that there are colliery proprietors who would prohibit shot-firing where safety-lamps are requisite, and it was remarked that prima facie the employment of locked-lamps and the adoption of shot-firing in the same workings appear incongruous, but that, if the ventilation is perfect, mine managers of acknowledged ability and of much experience in their calling, sanctioned shot-firing even where lamps are used. The evidence forthooming at the very thorough enquiry which took place at Talke was in all respects confirmatory of these remarks. Mr. Henry Hall, the Government Inspector of Mines for West Lancashire and North Wales, who had assisted in furnishing information for the guidance of the Coroner and his jury, said that if there was perfect ventilation blasting could be done with safety, but that in a fiery mine it should take place in the night, or during a change of shifts. We quite concur. There are, we repeat, deposits of fossil fuel which would be profitless if the mineral should be brought down only by the wedge. The use of the wedge, though unquestionably a safer method of dislodging coal and of driving headways, is a tedious and an expensive method. If it should be enforced universally in flery seams it would reduce considerably the profits of the colliery owner, and also the wages of the operative miner. Further, it would enhance the price of the commodity to the consumer. Nevertheless, the employment of the lamp in such seams as the Banbury ought to be surrounded with every salutary check. That blowing down coal is a more dangerous operation in mining than the wedging of coal the distressing accident at the Bunkers Hill Colliery abundantly testifies; but it does not thence follow that if such precautions as Mr. Hall maned had been adopted, the more speedy and effectual method might not have been adopted, the more speedy and effectual method might not have been adopted with advantage. Gunpowder had been employed in In the article upon this subject in the Journal of May 8, attention state, even after their exposure to this explosion. When, however, we reach the question of getting coal to bank with the most profit to master and man, at the least cost, and, therefore, at the lowest price, gunpowder comes to our aid.

We feel much satisfaction in noting that the owners of the colliery are men of whom Mr. WYNNE could say that during the 23 years of his official life Mr. RIGBY had, regardless of expense, therefully carried out, grey suggested improvement that he as

liery are men of whom Mr. WYNNE could say that during the 23 years of his official life Mr. RIGBY had, regardless of expense, cheerfully carried out every suggested improvement that he, as Government Inspector, had made. Of this readiness Mr. WYNNE gave a notable proof by adding that when he showed Mr. RIGBY the fans employed by Messrs. BARBER and WALKER, at East Wood, that gentleman at once ordered one for both the Audley Colliery and also the Bunkers Hill Colliery. It was by the use of the fan that 200 cubic feet of air per minute was passed into the Banbury seam for every one of the 40 men who were employed in it at the time of the explosion. Such a quantity of air we all know is an ample supply, and if properly distributed should, unaccompanied by a sudden eruption of gas, have secured the men's safety. But was the air properly distributed, and were there any sudden eruptions? Mr. WYNNE, Mr. HALL, and Mr. GILBOY all assert that it was not properly distributed, for it had been conveyed to the face of work in iron pipes, and not by bratticing. The pipes secured plenty of ventilation at the face, but left the surrounding space insufficiently cleansed. That the foulness of this space would be enticement enough to an explosion seems to be the belief of Mr. HALL, Mr. WYNNE and Mr. GILBOY, however, are not so certain upon this point. In truth, they appear to favour the theory that there was a sudden escape of gas mainly from the floor, and that this, combined with a probable escape from behind the dislodged coal after the shot was fired, brought about the calamity.

The facts supply us with a double moral, that pipes should be used but sparingly, and that in a fiery mine powder must be ignited solely under circumstances likely to produce the minimum sacrifice of humanlife. We had thought that to say this was only to repeat what most mining engineers know very well. But Mr. WyNNE is under a very decided impression that mine managers who have not had a large amount of experience are erring gravely in the wide adopti

have been adopted far too much by newly-made managers, who, he added, "possess more theories than are entertained by scientific men."

If the explosion at Bunkers Hill supplies a lesson which such managers need the enquiry into its causes will have furnished additional of iron pipe conveyan of air. data upon which to check former conclusions held by people whose views command respect. It is by experience that we gain wisdom. If Mr. WYNNE could have his way it would be illegal for any colliery owner in this country to use gunpowder where locked lamps are necessary. He is convinced that if in this matter he could work his will both colliery owner and colliery worker would be benefited —the one in the increased value of his products, and the other in the less hazardous nature of his calling. We have already intimated that there ought not to be a necessity for the prohibitory step, but if in every day practice gunpowder cannot be used with the requisite caution, then this Journal would be the first to declare in favour of such legislation as that which Mr. WYNNE advocates. Our conviction is that there has been ready. tion is that there has been much improvement in recent years, and that, without being perfect, managers and miners are both more careful in the way in which they use that which has long proved a great boon to them. In its last bill the Legislature fenced round the employment of powder with increased precautions, and we are inclined to think that those precautions will have been emphasized by the loss of the 43 colliers who have fallen in this last explosion in North Staffordshire, with the result that the improvement recently observable will become even more apparent hereafter. If this should

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not prove to be the case then, by all means, let the recommendation of the jury, that gunpowder should be discontinued in mines where safety-lamps are employed, be carried out.

Pennsylvania has been coming forward freely, and does much to abate the inconvenience of the lessened supply of anthracite.

FRENCH RAILWAY ECONOMY.

The traffic earnings of the vast French railway system known as the Paris, Lyons, and Mediterranean were scarcely so good last year work. Thanks, however, to the excellent and economical management of the council of administration, this falling off in the receipts ment of the council of administration, this falling off in the receipts ment of the council of administration, this falling off in the receipts ment of the council of administration, this falling off in the receipts ment of the council of administration, this falling off in the receipts ment of the council of administration, this falling off in the receipts was more than counterbalanced by a reduction effected in the working expenses to the extent of no less than 249,4012, the net profits ing expenses to the extent of no less than 249,4012, the net profits ing expenses to the extent of no less than 249,4012, the net profits ing expenses to the extent of no less than 249,4012, the net profits in 1874 it was brought down to 40.46 per cent. Although the cent; in 1874 it was brought down to 40.46 per cent. Although the working of the Paris, Lyons, and Mediterranean was carried on the working of the Paris, Lyons, and Mediterranean in 1874 was by the engines of the Paris, Lyons, and Mediterranean in 1874 was by the engines of the Paris, Lyons, and Mediterranean last year, the consumption of the Paris, Lyons, and Mediterranean last year, the consumption of the twelve months having been brought down to 614,201 tons, as compared with 702,747 tons in 1873, and 625,295 tons in 1872. The reduction in the price of the coal consumed upon the system last year, as compared with 1873, was 22,2804; but a much larger saving was effected by the economy brought to bear upon the consumption. Altogether the saving effected by the Paris, Lyons, and Mediterranean last year in the matter of its coal consumption was 139,8004. This was, of course, an economy not at all to be despised, although the revenue of the company from all sources last year was not less than 11,000,0004. T

While the Council of Administration of the Paris, Lyons, and Mediterranean brought great care to bear upon the economical working of the system last year, they did not at the same time neglect the maintenance of the permanent way. On the contrary, the outlay in the permanent way department was increased last year to 499,5134, as compared with 354,1411 in 1873. The Council has come to the conclusion that steel rails will last 40 years, and that during the first five years they will only require to be renewed at the rate of two per 10,000 per annum, while in the case of iron rails renewals have after 12 years to be effected at the rate of no less than 12½ per cent. per annum. Under these circumstances, the directors share the now very general opinion that it is advantageous to use steel rails upon all lines upon which the traffic presents a certain activity. They have accordingly not hesitated to renew with steel rails the main line from Paris to Marseilles, as well as some lines of secondate importance upon which it was impossible to defer re-construction operations.

main line from Paris to Marseilles, as well as some lines of secondrate importance upon which it was impossible to defer re-construction operations.

In many re-pects French railway management appears to be worthy the attention of the English railway interest, as it affords some remarkable illustrations of the results derived from attention to details. Few English railways, we fear, are now worked at the remarkable illustrations of the results derived from attention to details. Few English railways, we fear, are now worked at the remarkably low rate of 40-46 per cent. of the receipts, and few yield their shareholders or stockholders a return upon their original capital at the rate of 11 per cent. per annum. Yet both these results were attained last year upon the Paris, Lyons, and Mediterranean. The French are not overdone with railways; they have scarcely any duplicate and semi-useless lines, and the consequence is that although France is not so rich a country as Great Britain, French railways, as a rule, pay better than English ones. The French have practically fused their whole railway system into six great networks, the Paris, Lyons, and Mediterranean ranking first, with an effective group of 2462 miles of line. By this plan of reducing the number of companies useless competition is undoubtedly avoided, and every train is turned to the most useful possible account. Whether the public interests suffer from this absence of competition among French railway companies is a matter of some little doubt; but this is a difficulty which might be surmounted by stringent regulations in regard to rates and fares, and it is tolerably clear that the existing French railway system has not prevented the French from rallying in a remarkable manner from the disasters of the Franco-German war. Neither is there any demand on the part of the French public for the adoption of a competitive railway system in France; on the contrary, no opposition appears to have been offered to an official rejection of a project for a new arterial

COAL IN NOVA SCOTIA.—The following return of the sales of coal, from 1785 to 1874, is extracted from the report of Mr. Henry S. Poole, Government Inspector of Mines, and is believed to be the only correct table of the coal product of the British provinces that has been prepared:—

8	been	pr	epar	ed:-		-
	1785	to	1790	Tons	14,349	
			1800	190-00-00-00-00-00-00-00-00-00-00-00-00-0	51,048	
			1810	***************************************	70,452	
			1820	***************************************	91,527	
			1839	***************************************	140,820	
			1840	400000000000000000000000000000000000000	839,981	
			1850	***************************************	1,533,798	
			1860	***************************************	2,399,829	
			1870	***************************************	4,927,329	
	1871	to	1874	***************************************	3,012,565	
	Mr. Jan					

Total coal sales. To which may be added colliery consumption 1,700,622 tons, making the quantity actually mined 14,782,330 tons. All tons of 2240 lbs.

RAISING COAL BY ATMOSPHERIC PRESSURE.—A novel method of raising coal has been tried for some time in the Creuzot mining district in France. An air-tight tube is fitted from top to bottom within the shaft of the mine; in this tube a piston works; to this piston a cage is attached, in which the tubes of coal are placed, and the tube is further fitted with valves and doors for regulating the supply of air, and running the tube in and out. Air being admitted beneath the same time more than 70,000 cubic feet of foul air is discharged from the same time more than 70,000 cubic feet of foul air is discharged from the mine, while a corresponding in-rush of fresh air enters from the sunface down into the workings. The same apparatus which raises and lowers the tube will also raise and lower the mine.

COAL AND IRON IN THE UNITED STATES.—In the course of last year, the Chicago, Burlington, and Quincy Railroad Company laid 52½ miles of steel rails in Illinois, and 29½ miles of steel rails in lowa, in all 81½ miles. The whole extent of steel rails now in the track was thus carried to 286½ miles. English iron rails are quoted at \$48 to \$50 gold per ton at New York. American iron rails are quoted at \$48 to \$50 gold per ton at the works. The anthracite coal movement of Pennsylvania to April 17 this year amounted to 3,005,260 tons, against 4,222,775 tons in the corresponding period of 1874, showing a decrease this year of 1,217,515 tons. The bituminous coal movement of Pennsylvania to April 17 this year was 736,763 tons, against 663,625 tons in the corresponding period of 1874, showing an increase this year of 73,078 tons. Combining anthracite and bituminous coal together, we have thus a decrease of 1,138,487 tons in the coal movement of the State this year. Soft coal from Western

the inconvenience of the lessened supply of anthracite.

COAL TRADE IN BELGIUM.—Sir H. Barron, Secretary of the British Legation at Brussels, states that the quantity of coal raised in Hainaut in 1873 was 11,652,903 tons, about the same as in 1872, but its value was estimated at 178. 4d. per ton, instead of 11s. The number of hands employed was 79,556, an increase of 5873 over 1872; and their annual wages averaged nearly 50% per head, being an increase of 40 per cent. The cost of production is estimated at 0 641% per ton, and the net profit at 0 223% per ton. The quantity raised was only 146 tons per workman, or 104 tons less than in Eagland—a fact which is cited as explaining how it is that, notwithstanding higher wages, English can undersell Belgian coal even in Belgium itself. The aggregate value of coal and coke exported from Belgium itself. The aggregate value of coal and coke exported from Belgium in 1874 (chiefly to France) was 5,130,883%, or 687,677% less than in 1873. Sir H. Barron describes the iron trade as suffering greatly. The steel manufactured in Germany has supplanted Belgian iron to a material extent. Iron fell back to its former prices, but these, in the face of the enhancement of labour and coal, were utterly unremunerative. When he made his report, in March, some orders had been sent to Belgium from Cardiff, and a fainthope of business had been awakened by the Welsh dispute, and rumours of more strikes in England. Sir H. Barron, however, declares that the exactions of the labouring class, a legacy of the coal famine, threatened to cripple every industry.

THE DARLASTON STEEL AND IRON WORKS.

THE DARLASTON STEEL AND IRON WORKS.

For some time past various works have been in progress at this old and well-known establishment with the view of economising, as far as possible, the cost of production in every department, and of securing at a minimum charge a maximum quality of steel and iron. The arrangements are now so far perfected that we may venture to give an outline sketch of what is now conceded by all who have inspected it to be one of the most complete and best-planned iron-producing establishments in the Black Country. The works, which are situate about a mile from Wednesbury, were founded at the close of the last century, and for many years were carried on by the late Mr. Samuel Mills, one of the most successful of the South Staffordshire ironmasters. Mr. Mills was succeeded by Messrs. J. Foster Lloyd & Co., and the Lloyd family still retain an important interest in the undertaking, which is now carried on by the Darlaston Steel and Iron Company (Limited). The total area of the company's property is 880 acres, under the whole of which lie some of the best of the South Staffordshire coal seams. The principal collieries of the company are at Essington and Spring Hill, where the brooch, cannel, and Bentley 4-ft. coals are in course of active development. The present output of the Essington and Spring Hill where the brooch, cannel, and Bentley 4-ft. coals are in course of active development. The present output of the Essington and Spring Hill Colliery (which was designed by Mr. Josephus Smallman, the company's mining engineer) is 70 ft. in height, and of excellent construction. The most aubstantial character. The pit-frame at the new Spring Hill Colliery (which was designed by Mr. Josephus Smallman, the company's mining engineer) is 70 ft. in height, and of excellent construction with these collieries is the construction of three miles of railway to bring the pits within direct communication with the Cannock mineral line. Steel rails are being laid down, and the whole of the work is of a most subst

A special return of production at these works is a homogeneous metal, which combines with the general properties of iron the toughness of steel. It is guaranteed to stand any test to which iron can be put, and it is largely used for tube strip and severe flanges.

The chairman of the company is Mr. Samuel Lloyd, of Birmingham, and the managing director is Mr. Francis Henry Lloyd, of Wednesbury, under whose personal supervision the new and spirited enterprises to which we have here alluded have, for the most part, hence carried out.

in price, and they are now being delivered at miles, even so much as half-a-dozen miles, from a seaport for 18s. per ton. The quality also is improving, as the merchants are now able to procure coals from almost any colliery they choose. Labour, too, is cheaper, and mines are being worked for much less than at any period during the last three years; indeed, it is doubtful whether a very high price for tin is, on the whole, beneficial to shareholders, and many well-informed persons execut that with tin at from 601 to 701 per ton.

reasonable time there is doubt the production will largely increase. Meanwhile the refiners are managing matters pretty much as they please, the manner in which the miner sells the raw arsenic being about the most unbusiness-like proceeding it is possible to imagine. The arsenic, after it is swept out of the flues where it is deposited, is put into heaps, after which the weight is estimated, and notice is given of sale. The refiners' agents attend on a certain day, and make their offers. The value of the arsenic, of course, depends on the percentage of fine arsenic it contains, but this is rarely ascertained, the buyer trusting to his judgment of the quality, and the sel'er trusting to chance as to what he shall get offered him. As the buyers are few in number there generally is some arrangement, but sometimes an outsider puts in an appearance, and this occasionally leads to an advance of 30 per cent. in the price. Miners should be more sharp. We need all the legitimate profits that can be made. A Cornish mining case of some interest has just been disposed of. Plaintiff, Mr. T. T. Arnall, merchant, of Redruth, sued the defendant, Mr. Williams, the proprietor of the Bedford Colliery, Mold, Flintshire, at the Bristol Assizes in August, to recover the sum of 252′, the price of some mining materials sold by the plaintiff to the defendant. A verdict was given for the plaintiff, with leave for the defendant to move for a new trial. Mr. Prideaux, Q.C., accordingly in September last moved for a rule for a new trial, which was granted, and the other day the case came on for argument in the Court of Queen's Bench; Mr. Cole, Q.C., M.P., with Mr. W. M. St. Aubyn, instructed by Mr. Holloway, Redruth, opposing on behalf of Mr. Arnall. The Court, after a lengthy argument, unanimously agreed that a new trial should not be granted, and the rule was discharged.

The meetings at Tincroft and Carn Brea, as we anticipated, passed off quietly. Capt. Abraham James was present at Tincroft, but had

discharged.

The meetings at Tincroft end Carn Brea, as we anticipated, passed off quietly. Capt. Abraham James was present at Tincroft, but had nothing to say, except to remark that the meeting was a fifteen-week one, and the adventurers evidently endorsed Capt. Teague's idea that a manager must have a little latitude, especially a manager who holds such a stake in a mine as 2241 shares out of 6000. Tincroft is looking well. So is Carn Brea, which would have made a profit had it not been for the 13 month's cost. The adventurers here took a very wise step in deciding that the extra month's cost should in future be apportioned over each of the four quarters instead of falling upon one. It is what we have often advocated since the five-weeks month was done away with; there have been several cases in which mines otherwise healthy have been thrown back hopelessly by this additional burden coming at a critical moment. South Crofty, we are glad to see, has made a profit, and looking promising.

REPORT FROM THE FOREST OF DEAN.

May 19.—Trade throughout the Forest is dull, very dull indeed, just at present, and we much fear that it will remain so for several months yet to come, as in the absence of activity in manufactures requiring the consumption of coal demand for household or block coal is not likely to be brisk during the summer season. As a result of a slack trade in coal the pits are idle in several instances two and even three days a week. This makes it bad for the workmen, and through them for the shopocracy, as when work is slack the circulation of money is materially checked, and this forcibly illustrates the fact how dependent we all are, more or less, one upon another. When, however, our additional railway outlets, now in course of construction, are completed, we shall look for an addition to our Forest trade. Some have expressed great disappointment

course of construction, are completed, we shall look for an addition to our Forest trade. Some have expressed great disappointment and surprise that the reduction of prices of our coal did not give an impetus to our Forest coal trade; but the fact was that the reduction was too long delayed, the advance of spring and summer rendering the slow policy of bringing down prices too much like "locking the stable door after the mare was stolen."

The failure of the Amalgamated Association of Miners to support the Forest men in their late winter strike almost broke up the local Union, only about 400 members out of 4500 remaining. An attempt, however, is now being made to reorganise the men and unite the National Federation, this proposal being well received at a large meeting held on Thursday of last week in front of the Speech House. This meeting was also notable for another circumstance—namely, the delivery of a speech by Mr. H. D. Hoskold, engineer, in which he recommended to the men their clubbing together and purchasing and working co-operative collieries, which would furnish employment to the industrious, and encourage them by profitable returns from their investments. But to make such projects safe it is clear that such men as the recommender must superintend and direct operations, ordinary working colliers being incompetent for such positions. But will class projudice permit the men to be guided. that such men as the recommender must superintend and direct operations, ordinary working colliers being incompetent for such positions. But will class prejudice permit the men to be guided by others than from among themselves? We shall see. The reception of the speech was everything that could be desired, and, without being sure of practical results in the form of local co-operative collieries, the present mental standing of the Forest colliers is very different from what it was ere the labour agitation began. They have yet much to learn and acquire; but it is very obvious to an intelligent observer that their education, by public meeting, friendly discussion, and the newspaper press, has been immensely advanced during the last half-dozen years. Fallacies and sophisms which would once gull or bamboozle them are now treated with derision by them. They are now becoming more reasonable, by trying to would once guil or bamboozle them are now treated with derision by them. They are now becoming more reasonable, by trying to judge and decide by the evidence adduced in support of a proposi-tion, nor can partial advocates, whether by the tongue or the pen, succeed so well as formerly. These advances are grounds for hope, provided their teachers are wise, fair, and candid in dealing with them. Mere assumption and authority will fail as the masses rise inintelligence. Whose bath eyes and ears let him observe and hear.

REPORT FROM MONMOUTHSHIRE AND SOUTH WALES.

REPORT FROM MONMOUTHSHIRE AND SOUTH WALES.

May 20.—Since our last report affairs have progressed steadily but surely towards a peaceful solution of the vexed question. The ranks of the men already at work are daily being augmented, although a great number of those who came out on strike still remain fixed to their determination not to go in at the masters' terms. How they will succeed, or what their ultimate destinies will be, it is, of course, difficult to predict; but judging from the fact that the masters are said to be refusing work to a lot of men who have, to some extent, identified themselves with the recalcitrant colliers, without absolutely belonging to them; and it is stated that many of these men put in an a pearance with tools, expecting to be reinstated in their old places, but were told that they could not be allowed to resume work. If these men are served in such a way it must be painfully evident to the colliers on strike that their chance of again being employed is very remote. Many of the men who at the commencement of the lock-out left this locality in search of work elsewhere are now returning, and are being employed in their the commencement of the lock-out left this locality in search of work elsewhere are now returning, and are being employed in their old pits; and there can be little doubt that as soon as the fact becomes generally known that work has been resumed the influx of strangers into the district will be great. Notwithstanding the 15 per cent. reduction men can still earn good wages, varying from 8 to 122 per day. The ironworks are hagining to show some per cent. reduction men can still earn good wages, varying from 8s. to 12s. per day. The ironworks are beginning to show some slight signs of activity, and a few blast-furnaces have been blown in. This will of necessity cause a demand for more coal, and the ironworks colliers, at last, see some gleam of hope in the future. Before the general business of the many ironworks throughout the district can attain anything like its former healthy condition the present state of things will have to be considerably modified, if not present same of things of the prevolutionised, and then in: lucements of no ordinary character will have to be held out to buyers in order to bring back their custom. But South Wales, with its many natural advantages and its wealth of raw material, can, if the masters and men only pull together, compete with all the world, both for prices and quality of material. Should the whole of the masters for a time turn their attention to the production of iron alone they would soon retrieve the trade that has, for the present, been lost to the district. This, it would appear, some of them are anxious to do, and by cutting down their profits some of them are anxious to do, and by cutting down their profits
to the lowest remunerative degree they are offering inducements to
buyers to give out fresh orders.

The manufactures are just now certainly leaving no stone unturned
to procure work for their men, inasmuch so that the Midland and

Northern makers are complaining greatly that their South Wales competitors are underselling them in the market, which, as we before stated, they are in a position to do, provided they and the men work for their mutual advantage. This is assuredly a hopeful sign, and considerable good is augured from the fact. The shipment of railway iron is a little on the increase, and a few orders are finding their way into the market, but masters are in a position to execute a great deal more than comes to hand.

The Coal Trade appears to be in a state of complete stagnation, and shipments, either to the English or foreign markets, are on the most limited scale. Since the men resumed work large quantities have been sent to the surface, but at present prices there is nothing like a demand for it. As soon as prices drop a little and people commence to lay in their annual stock, some more activity may be anticipated. The Tin-Plate Trade needs but little or no observation. The market is still limited, and is likely to be so until a decided drop takes place in the cost of raw materials.

This week Sir George Elliot, Bart., Mr. Horatio Lloyd, Mr. Parkinson, and Mr. Laing met the other owners at their new colliery (the United Colliery Company's pits), and after carefully in specting the colliery, they expressed themselves to be generally satisfied with the arrangements.

specting the colliery, they exp satisfied with the arrangements.

TESTIMONIALS TO COLLIERY MANAGERS.—A meeting of the Dare Pit officials took place on Saturday in the general office of the Ocean Collieries, the cocasion being the presentation of a testimonial to Mr. John Owen, the esteemed manager of the Dare Pit, on his removal to the management of the Edward Pit of the same collieries, situated in the Ogmore Valley. The testimonial consisted of an address beautifully illuminated on veilum, a gold lever watch and chain, a writing cabinet, and an aneroid barometer.——On Tuesday a meeting was held in the British Schoolroom for the purpose of presenting Mr. J. Jerramiah, the respected manager of Hope Colliery, with a testimonial. The proprietors of the colliery, Messys. H. and W. Powell, are also the owners of other collieries in the neighbourhood of Blackwood, the locality to which Mr. Jeremiah has been removed by promotion to undertake the management of the whole of the works. The testimonial consisted of a service of silver plate to Mrs. Jeremiah, and also a gold watch and chain, together with an affectionate and able address, to Mr. Jeremiah.

NEW TINWORKS FOR PONTARDULAIS,—This rapidly-flourishing town, which seems to have become the chief rendezvous (within a good radius) for enterprise in the tin plate trade, has to congratulate itself upon the commencement of another tinworks, which is to be erected on a beautiful site, in close proximity to the junction of the London and North-Western Railway and Great Western Railway, under the superintendence of Mr. Josiah Griffiths, the late managing director of the Morials Works, Llangennech. The first soci of the foundation was removed on Tuesday by Mr. Edward Austin Williams, the proprietor of the land.

COAL WINNING AT CAERPHILLY.—Great success has attended the mining operations of the Llantwit and Black Vein Coal Company, under the magement of Mr. P. Holmes. The company has sunk three pits a depth of 100 yards respectively. A short time ago the Little Rock vein was struck in No. 1 pit, but operations are to be carried on until t

THE SCOTCH MINING SHARE MARKET-WEEKLY REPORT AND LIST OF PRICES.

THE SCOTCH MINING SHARE MARKET—WEEKLY REPORT AND LIST OF PRICES.

During the past week the market has been quiet, as is usual at this holiday season, and less business has been done in all departments. In shares of iron and coal concerns, Benhar (all paid) are \(\frac{1}{2} \); ditto, New (3l. paid), ls.; Bolckow, Vaughan A, \(\frac{1}{2} \); and Ebbw Vale, \(\frac{1}{6} \)—all lower. A small lot of Cairntables changed hands, also at a reduction of 1 16th. Scottish Australian is \(\frac{1}{2} \) lower at the ex div. quotations. Monkland ordinary shares have declined a trifle, but the 7 per cent. Guaranteed Preferences are firm, at an advance of \(\frac{1}{2} \). Merry and Cuninghame are a trifle higher; the report of the directors, to be submitted to the meeting on the 25th inst., has been issued, and will be found referred to elsewhere in this report. Omoa and Cleland 10l. shares (4l. paid) have risen \(\frac{1}{2} \), being now quoted at 2\(\frac{1}{2} \) to 2\(\frac{3}{2} \). South Cleveland Ironworks remain at 6 to 7. A good business has been done in United Bituminous Collieries 1l. shares (all paid) at \(\frac{1}{2} \), but the market leaves off with sellers at that price. In shares of copper concerns, Canadian Copper Pyrites are 6l. cheaper, and the 2l. shares (all paid) of the Dunsley Wheal Phoenix Tin Mining (Limited) have changed hands at the very low price of 1s. each. Glasgow Caradon original shares are unaltered, but the new shares are a trifle higher. Huntingtons are firm at 43s. to 45s. Tharsis improved to 25\(\frac{3}{5} \), but the last price is almost the same as last week's. In gold and silver shares, Emma and Rica have improved; others unaltered. Emma touched 2, buyers, after hours on Saturday, but are now 1\(\frac{5}{5} \) to 1\(\frac{7}{5} \). A favourable telegram has been received about the Exchequer Mine, and has caused one or two enquiries for the shares. I. X. L. is at 1 to 1\(\frac{7}{5} \) nominally. Malpaso, \(\frac{5}{5} \) to 3\(\frac{5}{5} \), and Malabar also \(\

to the shareholders of the West Central Company, and 4557 (104.) 10 per cent. preferred shares, which are at present being issued. A detailed list of the several days' business follows:—

On Thursday last a moderate business was done. Benhar, all paid, done at 12½ and 12½, closing at these prices; new (3l. paid) shares, 70s. to 72s. Bolckow, Yaughan, A, done at 59½, closing 60½ to 51. Canadian Copper Pyrites done at 38s. 6d., closing 38s. 6d. to 39s. Ebbw Vale, 20½ to 20½. Emma opened at 35s., and were afterwards done at 35s. dol., but close lower at 33s. 6d. to 34s. 6d. dose, at 34s. 6d. to 34s. 6d. to 34s. 6d. to 36s., and were afterwards done at 35s. dol., but close lower at 33s. 6d. to 34s. 6d. dose, closing at these prices. Rica, ½ to 5-16ths. Tharsis opened at 24 11-16ths, but steadily improved to 25, closing at that price. Young's Paradia higher, at 5½ to 6½. Yorke Peninsula, ordinary, ½ to ½.

On Friday a good business was done. Arniston changed hands at 134. Benhar new (3l. paid) shares done at 71s., closing 70s. to 72s. Bolckow, Yaughan, A, about 51. Canadian Copper Pyrites done at 39s., closing 38s. 6d. to 39s. 6d. Dunsley Wheal Phoenix 2l. shares, all paid, changed hands at 1s. Ebbw Vale, 20½ to 21. Emma opened at 34s. 6d. and were afterwards done at 3s., closing 35s. 6d. Glasgow Caradon better, done at 27s., closing 36s. 6d. to 28s., new shares also better at 17s. to 17s. 6d. Javall, 13s. to 14s. Marbella, 93s. to 28s., new shares also better at 17s. to 17s. 6d. Javall, 13s. to 14s. Marbella, 93s. to 39s. Monkland 7 per cent guaranteed preferences offered at 7½. Omoa and Cleland good at 66s. to 50s. Botts from done at 73. Tharsis opened at 25½, but aferwards improved to 265½, then declined to 26½, closing 25½ to 25½; new shares done at 17. Young's Paraffin done at 6.

Monkland 7 per cent. guaranteed preferences offered at 1%. Omoa and Cleland good at 46s, to 50s. Shotts iron done at 73. Tharis opened at 25, but aferwards improved to 25%, then declined to 25%, closing 25% to 25%; new shares done at 17. Young's Parafin done at 6.

On Saturday a small business was done. Benhar new (3l. paid) shares, 70s, to 71s. Canadian Copper Pyrites done at 38s. 6d., closing 38s. to 39s. Emma done at 1½, but the price subsequently improved to 1½ to 2½. Hunting-ton, 43s. to 44s. Islay Lead remain at ½ to ½; this company sold on the 7th inst 5 tons of ore at 14l. Merry and Cuninghame done at 57s. 6d., closing 67s. 6d. to 68s.; the report of the directors, to be submitted to the extraordinary general meeting of the company on the 25th instant, has to day been issued, and annexed to it is a full copy of the vendor's proposal to take back the business, works, &c., embodied in a formal minute of agreement. His proposal is that the shareholders of the company shall pass a special resolution that the limited company be wounding voluntarily, four of the directors being appointed liquidators, with power to take such professional assistance as they may deem proper. Mr. Merry to place in their hands such a sum as shall enable them—1. To pay to the registered shareholders on May 30 next the par value of their shares, with interest thereon at the rate of such prepaid calls, with all interest thereon at the rate of 5 per cent. Mr. Merry is to pay all the debts of the company, including the amount due to debenture-holders, and shall also implement all the other obligations of the company, they shall, at his expense, convey and make over to him, or to any person or persons to be named by him, the whole estate and assets of the company, they shall, at his expense, convey and make over to him, or to any person or persons to be named by him, the whole estate and assets of the company. The shareholders are to retain all dividends already received by them, and Mr. Merry is to pay the costs incurred by the committ

dividend of 12½ per cent. declared. The directors have since received advices from Bydney, with advices from the Lambton Colliery to March 15 last. The sales of coal for the month of February amounted to 12,556 tons. Tharsis done at 25, closing 24½ to 25; new shares, 16½ to 17. Young's Paraffin shares again higher, done at 6¼, closing 6 to 6½. Yorke Peninsula ordinary remain at ½ to ½; new classification of the same favourable character.

On Tuesday a small business was done. Benhar, all paid, lower, done at 12½; new (3½, paid) shares also lower, at 69s. to 70s. Huntington, firm, at 4°s. to 45s. Merry and Curinghame, done at 69s. and 68s. 6d., closing 68s. 6d. to 69s. Monkland, ordinary, done at 68s. and 68s. 6d., closing 68s. 6d. to 69s. Monkland, ordinary, done at 69s. to 50s.; per cent. guaranteed preference firm, done at 7½. Omoa and Cleland, done at 2½, closing 2½ to 2½. Rich, 3½ to 5 febs.; There is a 40s. Young's Paraffin, done at 6%, closing 69s. 6d.

On Wednesday the market was again quiet. Benhar, new (3½, paid) shares, done at 71s. and 70s. Cairntable changed hands at 8½. Emma, done at 38s and 37s., closing 35 to 57s. Huntington remain at 4°s. to 45s. Kenna, 1½ to 1½. Tharsis, done at 2½, closing 2½ to 2½. Scottish Australian 1½ to 1½. Tharsis, done at 2½ to 2½ shigh 35s. done at 17 and 16½, closing 16½ to 16½. Yorke Peninsula, ordinary, ½ to ½. Young's Paraffin, done at 6½, closing 6½ to 6¼. Scottish Wagon, all paid, 11½ to 12; new 2½, paid) shares, done at 5%; at the meeting, in the offices of the company in Glasgow, yesterday, Mr. Peter McLagan, M. P., of Pumpherston, presided, and the report and accounts were unanimously approved of. Subjoined are the latest prices:—

				COAL, IRON, STEEL,	
Amoun		Amoun			Latest
of share		paid-u	p.	Name.	price.
£10	***	6	***	Arniston Coal (Limited)	134s.
10	***	10	***	Benhar Coal (Limited)	12%
100		35	***	Ditto Bolckow, Vaughan, and Co. (Limited)	121/6 31/2 503/2
10	***	9	***		81/
10	***	10	***	Chillington Iron (Limited)	814 514
82	***	29	***		20%
10		4	***	Fife Coal (Limited)	4
10	***	8	***	Glasgow Port Washington Iron and Coal (Limited).	23/
10	***	10	***	Ditto All paid	23/4
10	***	10	***	Lochore and Capledrae (Limited)	714 434 68s. 6d.
10	***	10		Marbella Iron Ore (Limited)	434
10	***	35	6	Marbella Iron Ore (Limited) Merry and Cuninghame (Limited)	68s. 6d.
10	***	10	***	Ditto All paid	916
10		10		Monkland Iron and Coal (Limited)	3
10	***	10		Ditto 7 per cent. Guaranteed Preference.	734
100		100		Nant-y-Glo and Blaina Ironworks pref. (Limited)	48
10	***	4	***	Omoa and Cleland Iron and Coal (Limited)	25%
1		1	***	Scottish Australian Mining (Limited)	13%
1		58.		Ditto New	- 36
80	***	50			73
10	***			Ditto New, issued at 21/2 premium	
				COPPER, LEAD, SULPHUR, TIN.	
10		7		Canadian Copper Pyrites (Limited)	38s. 6d.
10	***	10	***	Ditto All paid	614
10		7		Cape Copper (Limited)	3514
_		5	***	Drake Walls	
2	***	2		Dunsley Wheal Phoenix Tin (Limited)	ls.
1		1		Glasgow Caradon Copper Mining (Limited)	278.
1	***	15s.		Ditto New	178.
_			·		1
10	***	9	•	Huntington Copper and Sulphur (Limited)	43s.
1	***	1	***	Islay Lead (Limited)	
25s.	***	23s.			1/4
4	***	4		Panulcillo Copper Mining (Limited)	136
10	***	10		Rio Tinto (Limited)	97.
10		10		Rio Tinto (Limited) Russian Copper Mining (Limited)	314
-		6	***		6
10	***	10	***	Tharsis Copper and Sulphur (Limited)	243/
10		7		Ditto New	1634
	5	90s.6d		West Maria and Fortescue	12
1		1	***	Yorke Peninsula Mining (Limited)	36
i	***	58.	***	Ditto 15 per cent. Guaranteed Preference	34
-					~
				GOLD, SILVER.	
	***	5	***	Colorado Terrible Mining (Limited)	3
20	***	20	***	Emma Silver Mining (Limited)	379.
10	***	10	***	Flagstaff Silver Mining (Limited)	2
2	***	3	***	Javali Company (Limited)	138. 9d
5	***			Last Chance Silver Mining (Limited)	1
1	***	1	***	Rica Gold Washing (Limited)	34
				OIL.	
10	***	7		Dalmeny Oil (Limited)	111s. 6d
5		5		Midlothian Mineral Oil (Limited)	.34
10		10		Uphall Mineral Oil (Limited)	3
10		10		West Calder Oil (Limited)	11/4
10		81	ź	Young's Paraffin Light and Mineral Oil (Limited)	61/4
		,			-/-
10		10		MISCELLANEOUS.	103/
10	***	9	***	Conglog Slate and Slab (Limited)	1034
50	***	25	***	Highland Peat Fuel (Limited) London & Glasgow Engineering & Iron Shipbuilding	2014
1	***	3	**	North Cornwall Kaolin (Limited)	
20	***	91		Pernyian Nitrata (Limited)	1
10	***	10	2	Scottish Wagon Company (Limited)	12
10	***	9	***	Ditto New	
4.0	***	T	4		, ra. od.
				for this account May 27; settling day, May 31.	
NOTE	-	The abo	ive	list of mines and auxiliary associations is as full as	oan be

Note.—The above list of mines and auxiliary associations is as full as can be ascertained, Scotch companies only being inserted, or those in which Scotch investors are interested. In the event of any being omitted, and parties desiring a quotation for them and such information as can be ascertained from time to time to be inserted in this list, they will be good enough to communicate the name of the company with any other particulars as full as possible.

Post Office Buildings, Stirling, May 20.

REPORT FROM LANCASHIRE AND CHESHIRE.

May 20.-By reason of the Whitsun holidays, business is this week

May 20.—By reason of the Whitsun holidays, business is this week almost at a standstill in Lancashire, and there is no change to report in the position and prospects of the Coal and Iron Trades. The tendency of coal prices is, however, still downwards.

The enquiry as to the disaster at the Barrowshaw Colliery, by the flooding of which, as already reported in the Journal, four lives were lost, was closed on Monday at Oldham, Mr. Molesworth being the coroner. The principal witness was Mr. Mayall, the proprietor of the colliery, and from him it was elicited that a year ago Mr. Dickinson, Her Majesty's Inspector of Mines for the district, had called his attention to the state of the books at the colliery, and he then promised that he would see that everything proper in the way of making entries was done. It now transpired that the book in which should have been placed entries showing the state of the working was blank, and that Mr. Mayall had failed to carry out the undertaking he had given to the Inspector. The Coroner summed up, directing the attention of the jury to the principal features of the evidence, and a verdict was returned to the effect that the deceased had lost their lives through an unforseen accident. At the same time the jury expressed the opinion that the manager's books had been kept in a very loose manner.

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

May 20 .- The Whitsun holidays have absorbed all attention this week in the coal and iron districts of Staffordshire, and there is in week in the cost and rion districts of Staffordshire, and there is in consequence little to add to our last report. In South Staffordshire the collieries, mills, and forges resumed operations in some cases to-day (Thursday), but in the majority of instances they will remain closed until Monday. The Cannock Chase coalowners have definitely resolved that no change in prices shall be made for the present, and it is improbable that any reduction will be announced for some little time to come by the firms in the Dudley and Wolverhampton districts. The available supplies of local ironstone are very restricted, most of the mines in the district having been inope-

respressured, most of the mines in the district having been inoperative for some little time past. Prices are without change, In the South Staffordshire Iron Trade the movements of the week have been unimportant. Pig-iron is in steady but quiet demand, and prices remain at 3l, 2s, 6d, for cinder and 5l, to 5l, 5s, per ton for best native all-mine. A fair madium quality of rights where and prices remain at 3., 28, od. for cinder and 3., to 36, 38, per ton for best native all-mine. A fair medium quality of pig-iron, mixed cinder and mine, is realising 4l. per ton. Cold-blast Lilleshall pig is very firm at 6l. 10s. per ton, and with a well-sustained demand. Finished iron manufacturers report a continued buoyant enquiry for sheets, important Russian orders for which are in course of execution. Branded iron is steady in price on the basis of 101.10s, to 111.12s, 6d. for bars, according to quality, but the demand, except in the sheet

department, is very restricted. The Essington coal field, midway between Cannock Chase and The Essington coal field, midway between Cannock Chase and the Black Country, is just now the scene of spirited enterprise, and the mineral resources of the district are likely to undergo very vigorous development. The Himley Colliery Company have a powerful plant at work; and another plant, capable of raising 4000 to 5000 tons of coal per week, is being put down by the Essington Colliery Company. The Darlaston Steel and Iron Company, who have a leasehold estate of 600 acres, have three plants at work, and Colliery Company. The Darlaston Steel and Iron Company, who have a leasehold estate of 600 acres, have three plants at work, and two more in course of completion. Hitherto the only available

means of transit for the Essington minerals has been by a branch of the Wyrley Canal, but the company last named have on the point of completion a rail way three miles long connecting their colleries with the Cannock Chase mineral line, and parliamentary powers have just been obtained for the construction of a railway which will bring the Essington district into direct communication with Wolverhampton.

To-day's quotations on the Birmingham Stock Exchange included—Sandwell Park Colliery, 34; Chillington Iron, 5½ to 6; John Bagnall and Sons (Limited), 6; Patent Nut and Bolt, 5½ prem.; Patent Shaft and Axles, 4½ prem.; Cannock and Huntington, ½ dis., buyers; Pelsall Coal and Iron, 4 dis.; and Muntz's Metal (10 paid), 19½. The general tone of the market is steadier.

The North Stafford: hire coal and iron masters received on Friday evening, at a representative meeting at Stoke, a deputation of the miners to discuss the notice given on May I for a 10 per cent. wages reduction, to take effect from last Saturday. The men asked that the notice should be postponed for a fortnight, but to this the masters would not arree, declaring the notice they had given to be imperatively necessary, offering to give the men ample information to corrob rate and confirm that statement. Owing to the holidays it is not possible yet to determine what course the men really days it is not possible yet to determine what course the men really propose taken in the matter.

MKSSRS, JOHN BAGNALL AND SONS (Limited).—The annual general meeting of shareholders was held at the Great Western Hotel, under the presidency of Mr. John Richardson. The report, which showed a loss on the year's working of 10,56%. Os. 3d., was, after considerable discussion, adopted, and the retiring directors and auditors were re-elected. The meeting was then made special for the reception of the report of a committee of investigation appointed some time ago to enquire into the circumstances attendant on the formation of the company. The committee veported that, after a careful investigation, they were satisfied that neither Mr. H. Barclay, Mr. Edward Gem, nor Mr. S. S. Lloyd, iun., had any knowledge of the existence of the contract with Mr. Carlton previously to its disclosure at the end of last year, and that the fact of the existence of the contract was intentionally withheld from them and the shareholders. They considered this altogether unjustifiable, and though they thought that such concealment had not affected the constitution of the company, they had no doubt that the rights and interests of the shareholders had been seriously prejudiced. After setting forth the circumstances as to the formation of the company which had come to their knowledge, the committee said they had taken counsels opinion upon the point. Some of the parties concerned had made overtures for settlement, but they were not such as could be recommended for acceptance. Acting upon legal advice, therefore, the committee recommended that authority should be given to institute proceedings for obtaining full and complete relief, the committee believing that substantial compensation would be obtained. The whole of the recommendations were unanimously adopted.—Birmingham Daily Post.

THE IRON TRADE.

The iron trade is at present passing through one of those crises which appear to arise once every six or seven years in its history. Naturally the danger is most threatening where there has been the most rapid growth and expansion-namely, in the North of Engmost rapid growth and expansion—namely, in the North of England. The condition of the trade was, perhaps, never more perilous, nor required greater prudence and judgment on the part of those responsible for its welfare. Several heavy failures have occurred, and more will undoubtedly follow if the tide of doubt and suspicion which has set in be not quickly stemmed. When bankers suddenly withdraw the facilities which have for years been ungrandgingly granted to a hitherto thriving and prosperous district, the effect may be in some respects beneficial, but it may be purchased at a cost which those who produce it may find somewhat expensive.

The question is, Is the iron trade really unsound? Has it ceased to be a profitable staple, and is the present depression likely to be

to be a profitable staple, and is the present depression likely to be

It is undoubtedly a trade liable to severe alternations of adversity

It is undoubtedly a trade liable to severe alternations of adversity and prosperity, but, on the whole, it has been signally prosperous, and has advanced truly by "leaps and bounds."

In 1852 the capital embarked in the iron trade in the North of England did not exceed 300,000%, and the whole manufacture of iron did not exceed a value of 500,000%. In 1874 the capital employed in the trade was varicusly estimated at from 5,000,000% to 6,000,000%, while the value of pig-iron and manufactured iron produced amounted to 15,000,000%. The growth of the Middlesborough, Stockton, and Hartlepool has been one of the most remarkable features of the past quarter of a century.

Of the 6,000,000% of capital now sunk in machinery, plant, buildings, &c., fully 5,000,000% has been the result of untiring industry and thrift. Scarcely a moneyed man has ever come into the district, and it is a curious fact that, except two, there is not yet a grey-haired man in the iron trade in Midelesborough, Stockston, or Hartlepool.

Hartlepool.

This great growth has been severals times arrested, and despairing croakers have been as prophetic of evil things to come in years past as they are at the present moment. But after a year or two of

past as they are at the present moment. But after a year or two of dulness there has been the invariable rebound, enduring for several years, when manufacturers have flourished, and the producing power of the district has been largely developed.

Profits have been invariably spent on additional works, and when, as happened in a recent case, bankers shut up their pockets, the struggling manufacturer has to go to the wall, although it is confessed, if his works and plant could be turned in a month's time into cash—which is impossible—he would have sufficient to pay his creditors 40s. in the pound.

In 1852 there was a general impression that his iron which is

creditors 40s. in the pound.

In 1852 there was a general impression that pig iron, which in the early part of the was 36s. per ton, would never see 40s. again. By the end of the year the price was 65s. per ton, all other descriptions of iron advancing in similar proportions.

In the panic of 1857 a similar state of affairs supervened.

In 1866, when all English railways fell into discredit, it was generally believed that the iron trade had passed its highest powers of demand and production, and that no good could be expected from it again. Pig-iron fell to 51s. per ton, and remained there for a long time; but in 1871 we saw it a 140s. and such a demand accompanied this price that a large stock of nearly 700 000 tong was cleared.

panied this price that a large stock of nearly 700,000 tons was cleared off, while production itself had made unprecedented strides.

For a year and a half the trade has been in a languishing and unprofitable state. Manufacturers have lost money, but not a fleabite of their earnings.

The bad debts of merchants have, on the whole, not been serious.

When the worst has come the tide turns, and there are symptoms that the dulness which has pervaded the whole commercial world is beginning to lessen. Wherever civilization spreads from will be in request, and there is no reason to fear either that as a great staple of this country it will be in less request or that any other country can beat us in the race of competition.

If the timidity of some and the shortsightedness of others should cause the present depression to be the cause of widespread ruin and disaster in a district which has been remarkable for its industry and integrity, it will indeed be a matter of very great regret.

THE INVENTORS' INSTITUTE, AND THE NEW PATENT BILL -A public conference, convened by Sir Antonio Brady, president of the Inventors' Institute, is to be held at the hall of the Society of Arts on Tuesday, and in a circular issued by the secretary of the said Institute, Mr. F. W. CAMPIN, all interested are invited to attend, and he impresses upon them the importance of their giving their aid in this matter, it being considered that without energetic concerted action the Bill is likely to pass with the retention of its very objectionable provisions, which will allow a few Government officials to exercise a practically irresponsible veto on protection for inventions, together with other clauses prejudicial to the interests of inventors, and (as is generally thought) injurious to the public welfare. In addition to all which the absence of any appreciable reduction of the present high scale of stamp duties (often asked for by inventors) renders the Bill one that ought to receive the most earnest consideration of all interested in the industrial prosperity Institute, Mr. F. W. CAMPIN, all interested are invited to attend, narnest consideration of all interested in the industrial prosperity of the country. With the view to limit the discussion to matters of the country. With the view to limit the discussion to matters of unanimity of opinion, a series of resolutions agreed to at a preliminary conference at Sir Antonio Brady's, on April 28, will be submitted for the consideration of the meeting, and as far as practicable will be about to ticable will be adhered to.

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GLASGOW AND THE HIGHLANDS.

GLASGOW AND THE HIGHLANDS.

ROYAL ROUTE, VIA CRINAN AND CALEDONIAN CANALS, by Royal Mail Steamer, IONA, from GLASGOW, daily at Seven A.M., and GRENOCK at Nine A.M., conveying passengers for OBAN daily; FORT WILLIAM and INVERNESS, every Monday, Wednesday, and Friday. FORT STATES, IONA, MULL, SKYE, LEWIS, and WEST HIGHLANDS, see bill STAFFA, IONA, MULL, SKYE, LEWIS, and WEST HIGHLANDS, see bill STAFFA, IONA, MULL, SKYE, LEWIS, and WEST HIGHLANDS, recitilly, Dondon; or by post on application to DAVID HUTCHESON AND Co., 119, Hope street, Glasgow.

PATENTS FOR INVENTIONS BILL

PATENTS FOR INVENTIONS BILLS.

PUBLIC CONFERENCE OF ALL INTERESTED (convened by Sir Antonio Brady, President of the Inventors' Institute), will be by Sir Antonio Brady, President of the Inventors' Institute), will be Hell at the Hall of the Society of Arts. John street, Adelphi, London, W.C. (kindly lent for the occasion), on TUESDAY, the 22th May Inst., at Four o'clock (kindly lent for the coemsion), on TUESDAY, the 22th May Inst., at Four o'clock (hindly lent for the counset to be pursued to amend the Bill now before in the atternoon, to consider the course to be pursued to amend the Bill now before provided in the present form, will be very injurious, not only to inventors, but to the commercial and industrial interests of the country.

to inventors, Dut to the commercial and industrial interests of the country.

THE CORNWALL MINERAL SYNDICATE,
28, MOORGATE STREET, LONDON, E.C., are instructed to RECEIVE
APPLICATIONS for SHARES in the COVERACK GRANITE COMPANY,
West Cornwall. Conducted on the Cost-Book System, in 5000 shares, of which
ISO remain for subscription at £1 each.
Minimum dividend payable estimated at about 16 per cent. per annum.
The SHARE LIST will be CLOSED in a FEW DAYS.
Prospectuses on application.

Prospectuses on application.

THE CRENVER AND WHEAL ABRAHAM UNITED MINES COMPANY (LIMITED).

At an EXTRAORDINARY GENERAL MEETING of the members, held at the Cannon street Hotel, in the City of London, on Thursday, 13th May, 1375, the following resolutions were passed;—
following resolutions were passed;—
That it having been proved to the satisfaction of the company that the company cannot, by reason of its liabilities, continue its business, and that it is advantable to wind-up the same; that the same be wound-up voluntarily accordingly.

2.—That Alfred Good, of 7, Poultry, in the City of London, public accountant, Captain Graham Edwards, and George Stratton be and are hereby appointed Liquidators of the company.

TANKERVILLE MINING COMPANY
(LIMITED).

Notice is hereby given, that the ORDINARY GENERAL MEETING of the shareholders in the Tankerville Mining Company (Limited) will be HELD at the office, No. 8, Austinfriars, in the City of London, on TUESDAY, the 1st day of June next, at Two o'clock P.M. precisely.

J. H. MURCHISON, London Manager.

8, Austinfriars, London, 19th May, 1875.

R. Austinfrars, London, ted asay, 128 BRADA COMPANY

THE NEW QUEBRADA COMPANY

Notice is hereby given, that an ORDINARY GENERAL MEETING of this company will be HELD at the City Terminus Hotel, Cannon-street, on THURS-DAY, the 3rd June, 1875, at One o'clock P.N., for the purpose of receiving the director's report, with balance-sheet and statement of accounts, and for transacting the ordinary business of the company.

And notice is hereby further given, that the Transfer-books of the company will be closed from Tuesday, 1st June, until Monday, 1sth June next, both days inclusive.

By order of the Board,

T. G. GILLESPIE, Secretary.

11, New Broad street, E.C., May 18th, 1875. RAILWAY CARRIAGE COMPANY (LIMITED).

ESTABLISHED 1847.

OLDBURY WORKS, NEAR BIRMINGHAM.

MANUFACTURERS of RAILWAY CARRIAGES and WAGONS, and EVERY DESCRIPTION of IRONWORK.

Passenger carriages and wagons built, either for cash or for payment, over a period of years.

RAILWAY WAGON'S FOR HIRE.

CHIEF OFFICES,—OLDBURY WORKS, NEAR BIRMINGHAM.

LONDON OFFICES,—7, GREAT WINCHESTER STREET BUILDINGS.

THE BIRMINGHAM WAGON COMPANY (LIMITED)
MANUFACTURE RAILWAY WAGONS of EVERY DESCRIPTION, for
HIRE and SALE, oy immediate or deferred payments. They have also wagons
for hire capable of carrying 6, 8, and 10 tons, part of which are constructed spec
ally for shipping purposes. Wagons in working order maintained by contract.
EDMUND FOWLER, Sec.

WAGON WORKS,—SMETHWICK, BIRMINGHAM.

*** Loans received on Debenture; particulars on application.

POAD STEAMERS, NEW AND SECONDHAND, before power, Thomson's Patent; maker's firm in liquidation. RARE OPPORTUNITY TO BUY CHEAP.
Details and prices, FULLARTON, CUNDELL, AND CO., 87, Union-street, Glasgow.

COAL WAGONS FOR HIRE.—THIRTY 8 ton COAL WAGONS, with side and end doors, nearly new, TO BE LET ON HIRE, or on DE-FERRED PURCHASE LEASE.

Apply to "H. H.," MINING JOURNAL Office, 26, Fleet-street, London.

FOR SALE:—
A 50 in. cylinder PUMPING ENGINE.
A40 in. cylinder PUMPING ENGINE, with 10 ton BOILER.
A22 in. cylinder WINDING ENGINE, and CAGE.
A COMPOUND ENGINE, with 6½ in. and 11½ in. cylinders.
For particulars and price, apply to— WILLIAM MATHEWS, ENGINEER, TAVISTOCK.

THE ROCK-BORING CONTRACT COMPANY.

DARLINGTON'S PATENT ROCK-BORING MACHINERY.

OFFICES,-2, COLEMAN STREET BUILDINGS, MOORGATE STREET, LONDON.

FOR TUNNELLING, DRIVING LEVELS, CROSS-CUTS, AND SINKING SHAFTS.

TYNE CAST MALLEABLE IRON COMPANY, WORKS: TEAMS, GATESHEAD; LONDON OFFICES: CHANDOS CHAMBERS, ADELPHI, W.C. MANUFACTURERS OF ALL DESCRIPTIONS OF

MALLEABLE IRON CASTINGS, delivered in London, carriage free.

THE PATENT COTTON GUNPOWDER COMPANY

(LIMITED)
Are now PREPARED to SUPPLY their BLASTING POWDER, No. II, in bulk
and in cartridges of all sizes. This Powder is superior to any Mining Explosive
available to the public or known to science. ITS MANIPULATION IS EASY.

ITS ECONOMY GREAT.

ITS SAFETY ABSOLUTE.

It can be sent by all railways and the principal canals at gunpowder rates. Printed details and prices will be transmitted on application, and a representative of the company will attend on requisition from Mine Superintendents or Quarry Owners desirous of jndging of the value of this new explosive.

Application to be made to the Superintendent at the Works at Oare, near Faversham, Kent.

THE TAVISTOCK IRONWORKS, ENGINEWORKS FOUNDRY, AND HAMMER MILLS,

TAVISTOCK, DEVON.

ENGINEERS, BRASS AND IRON FOUNDERS, BOILER MAKERS AND SMITHS.

MAKERS OF CORNISH PUMPING, WINDING, AND STAMPING ENGINES: STEAM CAPSTANS AND CRUSHERS: WATER-WHEELS: PUMP-WORK; SHOVELS, AND HAMMERED IRON FORGINGS OF EVERY

DESCRIPTION. Also of SPUR, MORTICE, MITRE, BEVIL, and other WHEELS, of any dia meter up to 12 feet, made by Scott's Patent Moulding Machine, without the aid of patterns, and with an accuracy unattainable by any other means.

MACHINERY or FOREIGN MINES carefully prepared.

SECONDHAND MINING MACHINERY, in good conditon, always on sale

On Monday, May 31, will be published, in Three Volumes, medium 8vo, with above 2000 woodouts, price £5 5s. cluth, or £6 6s. half-bound in Russia,

URE'S DICTIONARY OF ARTS, MANUFACTURES, AND MINES, containing a CLEAR EXPOSITION of their PRINCIPLES and PRAOTICE. Seventh edition, re-writen and enlarged.

Edited by ROBERT HUNT, F.E.S., Keeper of Mining Records.

Assisted by numerous contributors eminant in Science and familiar with Manufactures.

London: Longmans and Co.

A NNUAL RECORD OF SCIENCE AND INDUSTRY FOR 1874.

Edited by SPENCER T. BAIRD.

8vo. cloth, pp. celv.—665, 9s.

London: TRUBBER and Co., 67 and 69, Ludgate Hill.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

IN the MATTER of the COMPANIES ACT, 1862, and of the GREAT ROYALTON TIN MINING COMPANY.—ALL CREDITORS or CLAIMANTS of the above-named company, who have not received notice from the Official Eliquidator thereof that their claims have been already admitted, are hereby required TO COME IN and PROVE their several DEBI'S or CLAIMS at the Registrar's Office, Truro, on Friday, the 4th day of June next, at Eleven o'clock in the forencon; or, in default thereof, they will be EXCLUDED from the BENEFIT of any DISTRIBUTION made before such proof. And for the purpose of such proof they are either to attend in person, or by their solicitors or competent agents, at the time and place above mentioned.

FREDERICK MARSHALL, Registrar.

Dated Registrar's Office, Truro, the 18th day of May, 1875.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

IN the MATTER of the COMPANIES ACT, 1862, and of the TRELEIGH WOOD UNITED MINING COMPANY.—ALL CREDITORS or CLAIMANTS of the above-named company, who have not received notice from the Official Liquidator thereof that their claims have been already admitted, are hereby required TO COME IN and PROVE their several DEBTS or CLAIMS at the Registrar's Office, Truro, on Friday, the 4th day of June next, at Twelve c'clock at noon; or, in default thereof, they will be EXCLUDED from the BENEFIT of any DISTRIBUTION made before such proof. And for the purpose of such proof they are either to attend in person, or by their solicitors or competent agents, at the time and place above mentioned.

FREDERICK MARSHALL, Registrar.

Dated Registrar's Office, Truro, the 18th day of May, 1875.

WHEATLEY KIRK AND PRICE are favoured with instructions from Mr. W. H. Wood TO SELL, BY AUCTION, on Monday, May 24, at Eleven for Twelve o'clock prompt, on the premises, Spear-street, Stevenson-square, Manchester, the valuable

square, Manchester, the valuable
STOOK OF ENGINES, &c.,
Including a very fine PAIR of 22 in. horizontal WINDING ENGINES, 4 feet
stroke, 11-6" centres, 10 ft. round rope drum, forged cranks, 10½" shaft brake
gear, reversing motion, &c., complete. Another PAIR of similar construction,
12 in. cylinders, 22 in. stroke, with 6 ft. drum. A smaller PAIR, same construction, 8 in cylinders, 16 in. stroke, without drum. A set of SPAN WINDING
GEAR, with 4½ ft. drum, 4½ ft. spur wheel, plinon, shaft, and pedestals. TWO
6 ft. DRUM SIDES, in halves.
New 12-horse PORTABLE ENGINE, having two 7½ in. cylinders, locomotive
crank shaft, reversing gear, fly wheel, &c., and all latest improvements.
Donkey and force pumps, steel wire rope, sinking hoppets, valves, weighing
machine, chains, pulley blocks, derrick poles, and other miscellaneous items.
Further particulars on application to the Auctioneers, Albert square, Manchester.

BY ORDER OF THE LIQUIDATOR.

SALE OF VALUABLE MINING PLANT AND MACHINERY IN
THE ISLE OF MAN.

ESSRS. J. LEES AND CO. have received instructions TO
SELL, BY AUCTION, at the Great Mona Mine, in the parish of Maughold, near Ramsey, on Thursday, the 27th day of May, 1875, the WHOLE of the COSTLY PLANT AND MACHINERY,

COSTLY PLANT AND MACHINERY,

In condition nearly equal to new, comprising—
A 40 ft. WATER WHEEL, 4 ft. breast, with powerful drawing machinery, double or single action, with balance bob and connection; 50 fms. pumping gear, with shaft rods, &c.; about 20 fms. of main rod; 55 fms. of ladders; 8 owts. of jumper steel; a dial and stand; a crab winch, and about 25 fms. 5-16ths in. chain; quantity of new and old wire and hemp ropings; 2 capstan pulleys, 4ft. diameter; 2 powerful screws; about 360 ft. of launders and stands; set of beam scales and weights; quantity of scrap iron; hoop iron; rod bolts, nails, old castings, &c.—which will be SOLD BY AUCTION on Thursday, the 27th day of May, at One o'clock precisely. The whole of the Plant and Machinery, together with the Leases, will be offered first in One Lot, and if not sold will be immediately offered in suitable lots.

On view the morning of sale.
Auctioneer's Offices: 86, London Wall, E.C., London; and St. James's Chambers, Bouth King-street, Manchiester.

STAFFORDSHIRE.

THE SHENSTONE HALL ESTATE.

THE SHENSTONE HALL ESTATE.

An important and highly valuable property, the whole (with the exception of about three acres leasehold for lives) being freehold, comprising about FIVE HUNDRED AND SIXTY ACRES of capital agricultural LAND, in arable and pasture, in first-rate condition and well timbered, most compactly situate, within two miles of the City of Lichheld, on the high road to Sutton, Coldfield, and Birmingham (about five miles from the former and twelve from the latter towns), with a large old fashined Manor House, capable, by a moderate outlay, of being restored to a gentleman's residence, with gardens and extensive and well-built farm homestead; also two other farm-houses and homesteads; the whole being let to substantial yearly tenants at rents amounting to £1160 per annum. The land is on the New Red Sandstone formation, directly beneath which the coal measures usually lie, and as the property is situate between the Cannock Chase, Leicestershire, and Warwickshire Coal Fields, there is great probability of its mineral resources becoming at no distant time developed; also a valuable Pleasure Farm, principally freehold, called Berry Hill, with farm-house and home stead, occupying high ground and commanding pleasing views, within a mile of the City of Lichfield, containing about 61 acres, presenting attractive building sites, let to yearly tenants, the whole offering to capitalists excellent opportunities for sound investments.

MESSERS, DANIEL SMITH SON AND OAKLEY.

MESSRS. DANIEL SMITH, SON, AND OAKLEY have received instructions to OFFER THE ABOVE ESTATE FOR SALE, BY AUCTION, at the Hen and Chickens Hotel, Birmingham, on Thursday, June 3, at Three for Four o'clock precisely, in Four Lots. The tithe rent charge on the property is very small, impropriate tithes, amounting to £60 a year, forming part of the estate.

the estate.

The South Staffordshire and Trent Valley Railways, with their stations at Lichfield, and the Birmingham and Sutton Coldfield Railway, with a station at Sutton Coldfield, afford easy and convenient access to all parts of the kingdom. The extension of the Sutton Coldfield Line to Lichfield, a bill for which is now before Parliament, will, when made, still further improve the railway accommodation of the district.

Parliament, will, when made, still further improve the railway accommodation of the district. Particulars may be obtained of Messrs. Tucker and Lake, Solicitors, 4, Seriestreet, Lincolo's Inn, W.C.; of Messrs. Gregory, Rowcliffer, And Co., Solicitors, 1, Bedford-row, W.C.: of Messrs. J. Mathrws and Sons, Surveyors, 15, Waterloo-street, Birmingham: at the place of sale; and of the Auctioneers, 10, Waterloo-place, Pall Mail, S.W.

PRELIMINARY ADVERTISEMENT.
VALUABLE MINERAL ESTATES IN WORCESTERSHIRE. R. BATEMAN is instructed to SELL, BY AUCTION, in June of Rock and Bayton, in the county of Worcester, and containing together 203A. 3R. 13r., with the MINES of COAL and other MINES and MINERALS thereunder, and the COLLIERY PLANT thereon. Full particulars will appear in future advertisements. For information, apply to Mr. Whitcombe, Solicitor, Bewdley; or the Auctioneer, Dudley.

NOTICE OF SALE.

MOTICE OF SALE.

THE IRONWORKS of KALLICH, with the GABRIELA FOUNDRY, situate in the "Erzgebirge." in BOHEMIA, one hour distant from the station Raitzenkain, on the Buschtiehrade Railway, are TO BE DISPOSED OF BY SALE.

1.— The FOUNDRY in KALLICH comprises a small blasting furnace, with cylinder blowing engline, two cupola furnaces, iron and brass foundry, roasting furnaces, atamping mill, two rod works, puddle rolling mill, with two puddling furnaces, one welding furnace, four flatting mills, one working steam-engine of 36 horse power, with three stationary boilers, two steam hammers, a tin factory, with five tin pans. A constant water power of 60 to 65 horse power is employed in the works. The privilege of peat digging in the neighbouring inexhaustible peat moors is secured by contract.

with the works. The privilege of peat digging in the neighbouring inexhaushide peatmoors is secured by contract.

2.—The GABRIELA FOUNDBY comprises one rod foundry, one tin rolling mill, one turn work, driven by a water power of 30 horses.

Both works are abundantly provided with dwelling houses for functionaries and workmen, as well as with all other requisite buildings. The works may be inspected by applicants, and any desirable information may be obtained at the office of the undersigned firm, in Pragne, Breite Gasse 3, first floor.

Purchasers are requested to transmit by May 31, 1875, to the undersigned, their offer (well closed, and with their full address on the envelope), which must contain plainly the price offered and the terms of paymeut, and which are blinding for the applicant until June 15, 1875.

ERZGEBIRG'SCHE EISEN-UND STARLWERER-GESELLSCHAFT, IN KOMOTAN.

(In Liquidation.)

CHINA CLAY AND TIN, COPPER, AND IRON ORES IN CORNWALL.

THE LESSEE'S INTEREST in certain VALUABLE CHINA CLAY AND TIN WORKS, in full operation, and also in certain CHINA CLAY AND TIN. COPPER, AND IRON ORES SETTS in CORNWALL TO BE DISPOSED OF.

an be obtained on application to Mr. S. N. Scott, China Clay

ISLE OF MAN. VALUABLE MINING PROPERTY FOR SALE.

TO BE SOLD, BY PRIVATE TREATY, the BRADDA MINE, structs in the parish of RUSHEN, held under lease from the Crown, with BUILDINGS, MACHINERY (including THREE STEAM ENGINES), PLANT, and MATERIALS, in good working order.

The property is to be sold in consequence of the unexpended capital of the company being insufficient to work it effectually: the raisings of lead and copper have been considerable, and the workings are now standing in ore.

Particulars may be obtained from W.F. MOORE, Esq., or JAMES SPITTALL, Ecq., two of the directors resident in the Island; or Capitain R. Barkell, at the Mine.

TENDERS FOR GAS COALS.

TENDERS FOR GAS COALS.

THE DIRECTORS of the SHREWSBURY GAS-LIGHT COMPANY are prepared to RECEIVE TENDERS for the SUPPLY of FIVE THOUSAND TONS of the best description of GAS COALS, and FIVE HUNDRED TONS of CANNEL, during the next twelve months.

Such coals to be as free as possible from sulphur, bats, bind, refuse, and dirt, and shall be weighed upon the company's machine (2240 lbs. to the ton), and delivered free, by and at the expense of the contractor, at the Gas Works of the London and North-Western or Great Western Goods Station, Shrewsbury.

Tenders, specifying the coals and the pits at which they are to be raised, must be delivered on or before the 27th day of May next.

The lowest or any tender will not of necessity be accepted.

S. B. DARWIN, Secretary.

GYP MINE.

GYP MINE.

OBE SOLD, a VALUABLE SEAM of fine quality GYPSUM, situated near a first rate port. The property is about 500 acres in extent. The mineral is reached by an adid driven into the face of the cliff, so that the stone is brought to the beach at a small cost. The machinery is new, and is adequate to a large output. The neighbourhood is admirably suited for the manufacture of plaster of paris and cement, coal being abundant. The owner of the mine would sell or would leave the purchase money in as part capital in such an undertaking. Apply to Mr. G. E. WILLETT, 15, Pigot-street, Limehouse.

CORNWALL.

CORNWALL.

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A VALUABLE and CELEBRATED SILVER LEAD and SPATHOSE
IRON MINE, adjoining the Port of Porthleven, in Mountebay, and situated in
one of the lest mineralised districts of Cornwall. The mine is held for 21 years
from Midaummer, 1872; dues only 6d. per ton for iron, and 1-20th for other minerals, subject to a low minimum rent, to merge in dues. The mine has only been
worked to a depth of 66 ffms.; the lodes are productive, and easily wrought; vast
quantities of silver-lead and other ores were returned in the former working, and
thousands of tons of iron ore are said to have been left in the old workings. A very
considerable quantity of work has recently been done in clearing and opening up
the shafts and levels, and the mine may be set to work at once by the erection of
machinery.

the sharts and levels, and the mine may be set to work at once by the erection of machinery.

The above offers a rare opportunity to a company or private capitalists for acquiring a good sound mineral property, and will be DISPOSED OF BY PRIVATH TREATY.

Particulars, &c., may be obtained of F. G. PHILLIPS, Esq., Solicitor, No. 1a, Linton-terrace, Hastings, Sussex; or H. F. WHITEFIELD, Esq., Solicitor, St. Columb, Cornwall.

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TO BE SOLD, PART or ENTIRE (former preferred) of a COLLIERY ROYALTY, of about 170 acres, in NORTH WALES. The pit is sunk 40 yards deep to the seam containing the best description of Cannel. There are six other seams of good coal (the first being King Coal, only 14 yards under it) known to be beneath this seam. Its situation being half a mile from a railway station, and also admirably adapted for land sale, close to excellent roads, the working expenses, royalty, rent, and outlay small for a probable get in a few weeks of 40 tone daily at an almost fabulous profit, render the present undertaking one well worthy the immediate attention of capitalists, coal dealers, gas manufacturers, or collery proprietors.

Address, "Q. E. D.," care of Mr. Watson, 15, Fenwick-street, Liverpool.

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PORTABLE ENGINES, ready for immediate delivery:—
SINGLE CYLINDER ENGINES.
7 h.p., with 9 in. cylinder.
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10 h.p., with 10% in. cylinder.
11 h.p., with 2 9 in. cylinders.
20 h.p., with 2 10% in. cylinders.
20 h.p., with 2 10% in. cylinders.

VERTICAL ENGINES, COMBINED WITH BOILERS:—2 h.p., 3 h.p., 4 h.p. Prices and full particulars free on application.

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ONE excelent 70 in. CORNISH PUMPING ENGINE, 10 ft. stroke, with metallic piston, with or without three boilers, 13 tons each, with fittings.

ONE good 72 in. CORNISH BEAM ENGINE, 10 ft. stroke, with inverted with the control of the

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ONE very good 20 in. horizontal WINDING ENGINE, 10 ft. stroke.

PUMPWORK of all sizes; CORNISH CRUSHERS; BOLLERS from 6 to
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PORTABLE STEAM ENGINE FOR SALE, 35-horse power, with tink motion reversing gear; also an 18-horse, both with or without pit winding and pumping gear.

FOR SALE, a new 6 ft. pan MORTAR MILL, and a good second-hand 6 horse power PORTABLE STEAM ENGINE. Price of both, £165.

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Two flues through each. Safe at 60 lbs. pressure working.

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Will be sold cheap, and are in first-class order.
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ONE 12-horse power PORTABLE ENGINE.
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Equal to new, and will be sold cheap.

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fitted with winding drums nd brake gear to each pair of engines.

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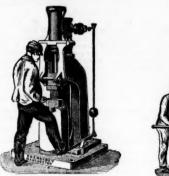
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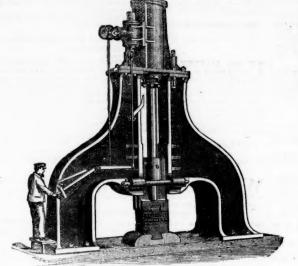
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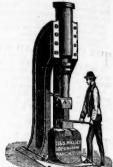


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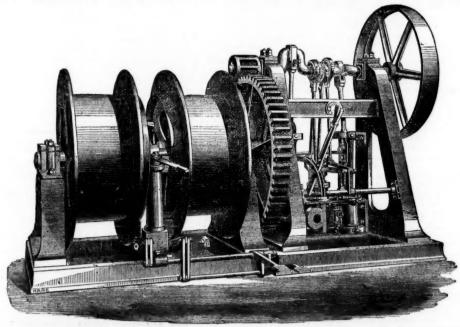
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Locomotive Engine, Rallway Carriage and Wages Springs and Buffers. SHEAF WORKS AND SPRING WORKS, SHEFFIELD. LONDON WAREHOUSE, 35, QUEEN STREET, CANNON STREET, CITY, E.C. Where the argest stock of steel, files, tools, &c., may be selected from.

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85, GRACECHURCH STREET, LONDON, E.C. WORKS: TUCKINGMILL.

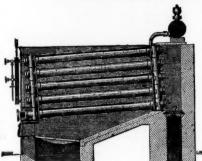
MANUFACTURERS of every description of MINING MACHINERY, TOOLS, MILLWORK, PUMPING, WINDING, & STAMPING ENGINES. SOLE MAKERS OF

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SPECIAL QUOTATIONS WILL BE GIVEN UPON INDENTS AND SPECIFICATIONS.

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Desire to call the attention of Steam Users to some important improvements re-cently introduced in these Boilers, by which any points of objection to previous designs are entirely overcome, whilst the valuable principle, so widely recognised,

In the improved Boiler there is neither welding, screwing, nor rivetting, and the whole of the interior is readily exposed to view and cleaned out. The more simple construction of the improved Boilers admits also of a substantial reduction in price.

Twenty of the Howard Safety Boilers, of 60 horse power each, are in use at Barrow, and altogether about 800 are successfully at work. The Boilers may also be seen at work at Messrs. J. and F. Howard's, Britannia Ironworks, Bedford. FOR PARTICULARS, APPLY TO

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TUNNELS, MINES, QUARRIES, AND SHAFTS.

Forty-two Machines employed at the St. Gothard Tunnel, Switzerland, and Forty at the Cochem Tunnel, Prussia

These Machines are the only ones employed at the heading of Goeschenen, north side of the St. Gothard Tunnel, traversing the hardest granite. They are also applicable to the galleries of mines, for which a special machine has been designed.

Apply for further particulars to-

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DIXON. CORBITT, AND SPENCER,

MANUFACTURERS of every description of ROUND and FLAT ROPES of any length for COLLIERY, RAILWAY, AGRICULTURAL, 'SHIPPING, and other purposes, and guaranteed of the highest standard of strength.

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